This is a digital copy of a book that was preserved for generations on library shelves before it was carefully scanned by Google as part of a project to make the world's books discoverable online.

It has survived long enough for the copyright to expire and the book to enter the public domain. A public domain book is one that was never subject to copyright or whose legal copyright term has expired. Whether a book is in the public domain may vary country to country. Public domain books are our gateways to the past, representing a wealth of history, culture and knowledge that's often difficult to discover.

Marks, notations and other marginalia present in the original volume will appear in this file - a reminder of this book's long journey from the publisher to a library and finally to you.

**Usage guidelines**

Google is proud to partner with libraries to digitize public domain materials and make them widely accessible. Public domain books belong to the public and we are merely their custodians. Nevertheless, this work is expensive, so in order to keep providing this resource, we have taken steps to prevent abuse by commercial parties, including placing technical restrictions on automated querying.

We also ask that you:

+ *Make non-commercial use of the files* We designed Google Book Search for use by individuals, and we request that you use these files for personal, non-commercial purposes.

+ *Refrain from automated querying* Do not send automated queries of any sort to Google's system: If you are conducting research on machine translation, optical character recognition or other areas where access to a large amount of text is helpful, please contact us. We encourage the use of public domain materials for these purposes and may be able to help.

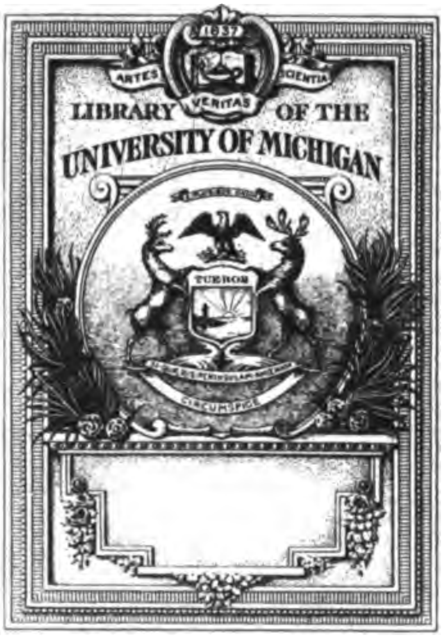
+ *Maintain attribution* The Google "watermark" you see on each file is essential for informing people about this project and helping them find additional materials through Google Book Search. Please do not remove it.

+ *Keep it legal* Whatever your use, remember that you are responsible for ensuring that what you are doing is legal. Do not assume that just because we believe a book is in the public domain for users in the United States, that the work is also in the public domain for users in other countries. Whether a book is still in copyright varies from country to country, and we can't offer guidance on whether any specific use of any specific book is allowed. Please do not assume that a book's appearance in Google Book Search means it can be used in any manner anywhere in the world. Copyright infringement liability can be quite severe.

**About Google Book Search**

Google's mission is to organize the world's information and to make it universally accessible and useful. Google Book Search helps readers discover the world's books while helping authors and publishers reach new audiences. You can search through the full text of this book on the web at `http://books.google.com/`

B 1,083,311



Received in Exchange
from
Univ. of Minnesota Library

University of Minnesota,
College of Education.

SEVENTIETH ANNUAL REPORT

OF THE

# SUPERINTENDENT OF PUBLIC INSTRUCTION

OF THE

# STATE OF MICHIGAN

WITH

ACCOMPANYING DOCUMENTS

FOR

THE YEAR 1906.

BY AUTHORITY

LANSING, MICHIGAN
WYNKOOP HALLENBECK CRAWFORD CO., STATE PRINTERS
1907

Exchange
Library
University of Minnesota

# LETTER OF TRANSMITTAL.

STATE OF MICHIGAN,
DEPARTMENT OF PUBLIC INSTRUCTION,
*Lansing, December 31, 1906.*

*To His Excellency,* FRED M. WARNER,
*Governor of the State of Michigan:*

SIR—In compliance with the provisions of law, I have the honor herewith to transmit through you to the Legislature, the annual report of the Superintendent of Public Instruction, together with the accompanying documents for the year 1906.

Very respectfully,
Your obedient servant,

Patrick H Kelley.
*Superintendent of Public Instruction.*

# TABLE OF CONTENTS.

Page
Superintendent's report (introduction) 1
Rural schools 6
Manual training 9
Elementary agriculture 10
New State course of study 11
Approved physiologies 13
Compulsory attendance law 15
Libraries 16

County normal training classes 18
County normal institutes (Bulletin No. 18) 20
Course of study 21

Syllabus of work:

Special subjects 21
Academic subjects 23

Teachers' examinations 24
Masterpieces for teachers' examinations 24
Masterpieces for eighth grade examinations 25
Bulletin No. 16 25
Rules governing examinations 27

Teachers' institutes 30
Bulletin No. 17 30
Institutes with state normal schools 31
Institutes with county normal training classes 31
Institutes in other counties 31
Inspiration instituttions 32
Recommendations 32
Course of study 32
Conductors and instructors 33
County normal training class teachers 35

Institute Form No. 1:

Summer institutes 36
The course 38
Syllabus of work 38

State high school course of study 43

School savings banks 43
Albion 44
Adrian 44
Grand Haven 44
Grand Rapids 45
Marine City 46
Monroe 46
Owosso 46
St. Louis 47
Ypsilanti 47

Kindergarten, music, and drawing certificates 47

Normal school system 50

Page

Colleges.......... 54

Special educational institutions:
- Michigan school for the blind.......... 55
- Michigan school for the deaf.......... 56
- Industrial school for boys.......... 57
- Industrial home for girls.......... 58
- State public school.......... 58

Report of board of control of the Michigan college of mines.......... 61
- Loan collection of typical rocks and minerals of Michigan.......... 68

Supreme court decisions:
- Compuslory education—Age limit.......... 73
- Public Schools—Teachers' contracts—Dismissal on 30 days' notice.......... 74
- Certiorari—Schools—New school district.......... 76

Examination questions:
- State examinations.......... 79
- County examinations.......... 96
- Eighth grade examinations.......... 129

Educational funds.......... 135

University of Michigan, report of treasurer.......... 136

Statistical tables:
- Comparative summary of statistics.......... 147
- Apportionment of the primary school interest fund.......... 154
- General school statistics.......... 156
- Employment of teachers.......... 159
- Resources of school districts.......... 162
- Expenditures of school districts.......... 165
- Miscellaneous financial statistics.......... 168
- Cost per capita of public schools.......... 170
- Statistics of township and district libraries.......... 172
- Branches of instruction.......... 175
- Private or parochial schools.......... 177
- Examination and certification of teachers.......... 178
- Miscellaneous statistics as reported by county commissioners.......... 181
- Condition of school and school houses.......... 183
- Instruction in physiology.......... 185
- Graded school statistics.......... 186
- Census, enrollment, attendance, etc., in city and graded village schools.......... 206
- Miscellaneous statistics of city and graded village schools.......... 222
- Financial statistics of city and graded village schools.......... 238
- Special report of the superintendents of city schools.......... 250
- Receipts and expenditures at teachers' institutes.......... 253
- Local committees, conductors, etc., at teachers' institutes for 1906.......... 256
- Enrollment at teacher's institutes for 1906.......... 260
- County boards of school examiners.......... 263
- General statistics of educational institutions.......... 267
- Financial statistics of educational institutions.......... 270
- Special statistics compiled from commissioners' reports:
  - Parochial schools.......... 272
  - Commercial schools.......... 274
  - Private schools.......... 275
- Special report of day schools for the deaf.......... 276
- Special report of the county normal training classes.......... 276

Index.......... 279

# STATE OF MICHIGAN,

## DEPARTMENT OF PUBLIC INSTRUCTION.

1906.

| | |
|---|---|
| PATRICK H. KELLEY, | State Superintendent. |
| WALTER H. FRENCH, | Deputy Superintendent |
| A. HAMLIN SMITH, | Chief Clerk. |
| NORA B. SHARPSTEEN, | Statistician. |
| GRACE B. WALLACE, | Assistant Statistician. |
| ZELLA M. HARVEY, | Editor. |
| ETTA H. GARDINE, | Stenographer. |
| NETTIE GARDNER, | Assistant Stenographer. |
| HARRY A. WILSON, | Shipping Clerk. |
| JOHN G. BOHNETT, | Janitor and Messenger. |

## STATE BOARD OF EDUCATION.

1906.

| | |
|---|---|
| WM. J. McKONE, | President. |
| DEXTER M. FERRY, JR., | Vice President. |
| LUTHER L. WRIGHT, | Treasurer |
| PATRICK H. KELLEY, | Secretary |

### SUPERINTENDENTS OF PUBLIC INSTRUCTION.

| | |
|---|---|
| APPOINTED. | |
| JOHN D. PIERCE, | 1836–1841 |
| FRANKLIN SAWYER, JR., | 1841–1843 |
| OLIVER C. COMSTOCK, | 1843–1845 |
| IRA MAYHEW, | 1845–1849 |
| FRANCIS W. SHEARMAN, | 1849–1851 |
| ELECTED. | |
| FRANCIS W. SHEARMAN, | 1851–1855 |
| IRA MAYHEW, | 1855–1859 |
| JOHN M. GREGORY, | 1859–1865 |
| ORAMEL HOSFORD, | 1865–1873 |
| DANIEL B. BRIGGS, | 1873–1877 |
| HORACE S. TARBELL, | 1877–1878 |
| CORNELIUS A. GOWER, | 1878–1881 |
| VARNUM B. COCHRAN, | 1881–1883 |
| HERSCHEL R. GASS, | 1883–1885 |
| THEODORE NELSON, | 1885–1887 |
| JOSEPH ESTABROOK, | 1887–1891 |
| FERRIS S. FITCH, | 1891–1893 |
| HENRY R. PATTENGILL, | 1893–1897 |
| JASON E. HAMMOND, | 1897–1901 |
| DELOS FALL, | 1901–1905 |
| PATRICK H. KELLEY, | 1905–1907 |

### DEPUTY SUPERINTENDENTS OF PUBLIC INSTRUCTION.

| | |
|---|---|
| CORTLAND B. STEBBINS, | 1859–1878 |
| WILLIAM L. SMITH, | 1878–1883 |
| DAVID PARSONS, | 1883–1885 |
| WILLIAM L. SMITH, | 1885—— |
| W. F. CLARKE,* | 1885–1891 |
| HUGH BROWN, | 1891–1893 |
| JASON E. HAMMOND, | 1893–1897 |
| DANIEL E. McCLURE, | 1897–1901 |
| WALTER H. FRENCH, | 1901–1905 |
| WALTER H. FRENCH, | 1905–1907 |

---

* In place of W. L. Smith, resigned.

# SUPERINTENDENT'S REPORT.

This is the seventieth annual report of the Superintendent of Public Instruction and the second of the present administration. The year 1906 has found all lines of school work in active operation. Those who are placed in charge of the various departments are in full sympathy one with the other and filled with zeal for the cause of education. The public schools, normal schools, and colleges have been progressing in a creditable manner. The only change in the general educational policy has been in connection with the State Teachers' Association, which has usually been held during holiday week. This year the date was changed to the last Thursday, Friday and Saturday of October and in connection therewith a State teachers' institute was called by the State Superintendent.

During recent years there has been a steady growth in the work of the Department. New legislation has brought new duties and it has been my earnest endeavor to execute the law in connection with our school system fairly and justly. I am pleased to say that I have had the hearty co-operation of city superintendents, county commissioners of schools, and school officers, and I desire in this, the closing report of my administration, to express my hearty appreciation of the cordial support thus given.

The Legislature of 1905 made several amendments to the school laws and passed several new acts. The experience of the past two years has shown the wisdom of the Legislature in making these changes. It is probable that no law ever enacted was so perfect in all its workings that it could not be improved, consequently there will be work for the Legislature of 1907 in correcting some of the conditions that still exist.

The duties of the State Superintendent were given in some detail in the report for the year 1905 and will not be repeated here. In the following pages of this report the various topics connected with the educational system of Michigan that have received special attention during the past year will be treated, and brief reports given upon what has been accomplished in special institutions.

Eighty-four teachers' institutes have been held during the year 1906, classified as follows:

One general State institute in connection with the State Teachers' Association at Battle Creek.

Four six-weeks' institutes in connection with the State normal schools.

Fourteen institutes of two weeks or more in connection with the summer county normal training classes.

# SUPERINTENDENT'S REPORT.

This is the seventieth annual report of the Superintendent of Public Instruction and the second of the present administration. The year 1906 has found all lines of school work in active operation. Those who are placed in charge of the various departments are in full sympathy one with the other and filled with zeal for the cause of education. The public schools, normal schools, and colleges have been progressing in a creditable manner. The only change in the general educational policy has been in connection with the State Teachers' Association, which has usually been held during holiday week. This year the date was changed to the last Thursday, Friday and Saturday of October and in connection therewith a State teachers' institute was called by the State Superintendent.

During recent years there has been a steady growth in the work of the Department. New legislation has brought new duties and it has been my earnest endeavor to execute the law in connection with our school system fairly and justly. I am pleased to say that I have had the hearty co-operation of city superintendents, county commissioners of schools, and school officers, and I desire in this, the closing report of my administration, to express my hearty appreciation of the cordial support thus given.

The Legislature of 1905 made several amendments to the school laws and passed several new acts. The experience of the past two years has shown the wisdom of the Legislature in making these changes. It is probable that no law ever enacted was so perfect in all its workings that it could not be improved, consequently there will be work for the Legislature of 1907 in correcting some of the conditions that still exist.

The duties of the State Superintendent were given in some detail in the report for the year 1905 and will not be repeated here. In the following pages of this report the various topics connected with the educational system of Michigan that have received special attention during the past year will be treated, and brief reports given upon what has been accomplished in special institutions.

Eighty-four teachers' institutes have been held during the year 1906, classified as follows:

One general State institute in connection with the State Teachers' Association at Battle Creek.

Four six-weeks' institutes in connection with the State normal schools.

Fourteen institutes of two weeks or more in connection with the summer county normal training classes.

Four county institutes of eight days or more.
Sixteen institutes of one week.
Thirty-eight inspiration institutes.
Seven traveling institutes.

The institute law passed in 1877 provides that the Superintendent of Public Instruction may call an institute for the State at large. This has never been done until the current year, when, as stated above, an institute was called for three days beginning October 25. The uniting of this institute with the State Teachers' Association brought out a paid attendance of over 5,000 teachers. While in a sense this was an experiment, the results secured are thoroughly satisfactory.

No applications have been received this year for the establishment of day schools for the deaf. The day schools for the deaf at Muskegon and at Jackson have been discontinued, leaving twelve in active operation this year.

Permission has been given for the establishment of seven additional county normal training classes, making the total number in operation for the year 1906-7 thirty-two, with an attendance of about 500 students. The new classes were authorized for the following counties: Allegan, Branch, Lapeer, Lenawee, Ottawa, Saginaw, and Van Buren.

The case which had long been pending involving railroad taxation was finally decided by the Supreme Court of the United States in favor of the State. Under this decision the railroads and other corporations paid into the State treasury the back taxes due since the law was passed fixing the assessment of corporation property by the ad valorem system. These taxes, together with the regular tax for the current year, make the total amount of primary school interest fund apportioned for 1906 the immense sum of $8,901,425, or at the rate of $12 per capita for each child of school age. This money has been apportioned to the several school districts to be used by them for teachers' wages. It is gratifying to note that this large increase in the amount of money available for teachers' wages has led school boards to voluntarily increase the pay of their teachers, thus showing their appreciation of the work done by the public school teachers of the State.

The last Legislature authorized the Superintendent of Public Instruction to investigate the books and records of school district officers and require corrections therein when necessary. Acting under this authority, the Department has been called upon to make a personal inspection during the past year of the records of thirty-five different school districts, besides investigating a large number through correspondence. In some cases it has been found that school district officers have misappropriated funds. In other districts, through carelessness in bookkeeping, the newly elected officers could not determine the standing of the district and requested assistance in order to find out where they stood. In several cases a shortage in accounts has been discovered and the officers have been required to make these amounts good. In several instances school districts had received large sums of primary school money and had used it all for school purposes. The district raised no voted tax and had used the teachers' fund for general school purposes. In these cases we have required the districts to call special school meetings and vote a tax to reimburse the teachers' fund and an additional tax for current expenses. It is probable that there are other districts in the State where these same things have been done but they have not been detected.

This inspection of school district records led to the sending out of a circular to school directors requesting information in regard to the length of the school year, the qualifications of district officers, the amount of funds voted for various legal purposes, and the amount and character of the bond given by the treasurer to comply with the statute. The replies to these inquiries showed that a startling condition of things existed. Out of the 7,267 school districts in the State more than 1,500 districts reported no treasurer's bonds at all, and in most of these cases they stated that no bonds had ever been required in their districts. In about 4,000 additional districts bonds had been given but they were either insufficient or invalid because of illegal execution. As soon as the first reports were received and examined, a second blank was sent out to each school district making unsatisfactory report. This blank suggested the legal procedure of school officers, how to estimate the amount of the bond that would be sufficient to comply with the law, and had attached thereto a blank form of bond, also a certificate to be returned to the Department when proper bonds had been executed. The fact that these reports would cause considerable annoyance and labor to the school officers was duly appreciated by the Department, but satisfactory replies were finally received from every school district and, while every bond that has been given has not been inspected to determine whether it is absolutely legal in form and amount, in the main school officers have carried out the spirit of the law. The school moneys of the State of Michigan are better protected than heretofore and the school officers understand better how to use their funds and keep their accounts.

In addition to investigating the conditions of school districts, a special examiner was appointed to visit the county treasurers and ascertain the conditions in regard to library or fine moneys, so that it might be known how much money was apportioned for libraries during the year 1906 and the amount per capita in each county, whether the instructions of the Department had been followed by the county treasurer in this apportionment, whether any of these funds had been diverted to other uses, and if fines assessed in the counties had been properly reported. There has not been time to visit all the counties but some very valuable information in regard to library matters has been secured. In some counties, fines are not properly reported and occasionally these moneys have been diverted from the library into the general or contingent fund of the county. The attention of the county officers has been called to these matters and to the constitution and law governing the collection and disposition of library funds. If these moneys can be properly collected and distributed, there is no reason why every district in the State cannot soon have a good working school library.

I have been pleased to note the interest taken among the several Granges and Farmers' Clubs in educational matters. Those who have had charge of the organization of Farmers' Institutes and Farmers' Clubs have certainly done a great work for our schools. Some educational topic has been discussed in every one of these meetings and thus has been disseminated a better educational spirit and a better appreciation of the needs of education. As a result, a more cordial support of educational work will be secured. I trust that those in charge of these organizations will continue this good work and that such papers as THE MICHIGAN FARMER and THE RURAL ADVOCATE will continue their campaign of education.

I desire at this time to recommend that in every Grange and Farmers' Club in the State there shall be organized what may be termed a "School Improvement Club." Such a movement as this has been in operation in the State of Maine for a number of years and has done heroic work towards improving the schools of that State. When one visits our rural, village, and even city schools, and notes the school buildings, the lack of sanitary conditions, poor ventilation and heating, improper lighting, improper closets and toilet rooms, one is convinced that in Michigan there is a place for a School Improvement Club in every county. It would be the work of these clubs to take up the consideration of these special items, aim to abolish bad conditions, and substitute the best and most improved methods of caring for the health of our children who attend the public schools.

In the last report of this Department the subject of rural schools and their improvement was discussed, and it was suggested that every school district should maintain a two-room school with ten grades of work and that to meet this, where necessary, districts should be consolidated in order to give sufficient area for taxation and to furnish the support of such a school. I believe that this is the solution of the rural school problem and the sooner our people take hold of it with a will, the sooner will there be adequate school privileges for the rural people.

The following is a full list of publications of the present administration:

1905.

(a) A course of study for the high schools of the State.

(b) Manual training pamphlet, outlining the work for the village and rural schools.

(c) Pamphlet containing a summary of the school laws of the State, with full set of legal forms.

(d) Pamphlet giving the new compulsory attendance law, with proper forms.

1906.

(a) Revision of the State Course of Study for rural schools.

(b) Revision of the course of study and regulations for county normal training classes.

(c) Results of consolidation of school districts, with methods and forms for complying with the law.

(d) Pamphlet giving the general plan of institute work for the State, with list of selected instructors.

(e) Pamphlet on new method of conducting teachers' examinations.

(f) Course of study for regular summer institutes.

(g) Course of study for county normal institutes.

(h) Michigan Pioneer Day program.

All of these have been distributed to the several county commissioners for distribution among the schools.

I desire especially to commend the work that has been done by the several county commissioners of schools. The duties of these officers have been constantly increasing since the office was created and the commissioner has come to be the most important educational factor in the county. The question has sometimes arisen as to whether he has general supervision over all the schools in his county. In answer to this question it has been uniformly stated that he has the same authority to advise with boards of education in city and village districts as he has in rural districts. I am pleased to note that in many counties the commissioner is frequently called upon to counsel with city and village boards of education. The new law governing truants has very nearly doubled his work, but I feel that the responsibility is properly placed upon his shoulders, as he is the official head of the county school system. I desire to call the attention of the people to the fact that the commissioner, being the servant of all the people of the county, should receive the hearty support of all good citizens and that care should be exercised in the selection of this most important officer. A mistake made here would work incalculable harm to the schools of the county.

The plan of calling an annual meeting of the commissioners at Lansing has been followed for several years and in these meetings the various phases of the commissioners' work have been thoroughly discussed. The commissioners have always been free to express their opinions in regard to the work of the Department and its relation to their work and the consensus of opinion among commissioners seems to be that this practice has been productive of excellent results and should be continued. The last meeting was held at Battle Creek at the time of the State institute on October 25.

In my opinion, there is no more hard-working, faithful, earnest and conscientious body of people to be found in our country than the persons who make up our teaching force, and it is a pleasure to me to testify to their worth of character and ability. I fear that sometimes we do not sufficiently appreciate the work of those who are daily molding the character of our young manhood and womanhood and thus shaping the destiny of our State.

Patriotism is not confined to those who shoulder the musket and go out to do battle against the country's enemies. When I think of our army of 16,000 teachers in Michigan who are giving the best of their lives to the instruction of our youth, I hold that here we have an army in which is exemplified the highest degree of patriotism known to the human soul. One may take his life in his hand and face the storm of shot and shell, but to stand day after day and year after year under the close scrutiny of youthful eyes and youthful minds, knowing that the contact of his life with the child is a stronger factor in the child's education than any or all of the academic subjects presented, requires even a higher degree of courage than to face death on the battlefield.

In closing this introduction I wish to say that, in addition to an increased attendance in all our common schools, we find an increased attendance at all our educational institutions. The denominational colleges of the State have been prospering as never before. The attendance at our State normal schools reached practically 3,000 students during the last year. The attendance at the University has passed the 5,000 mark. It must be remembered that with this awakening in educational matters there must come a corresponding support from the people.

It requires money to run our schools and educational institutions. I believe that the people of Michigan appreciate these conditions sufficiently so that there will be no question as to the financial support that these institutions shall receive.

## RURAL SCHOOLS.

During the year the Department has issued and distributed Bulletin No. 19, a revision of a former bulletin on the subject of consolidating school districts. This bulletin gives the law governing the consolidation, also the legal forms to be used by the districts desiring to consolidate, and the general plan of procedure.

**Rural school improvement.**

The improvement of the rural schools has been the subject of discussion by nearly all of my predecessors in office. I find as early as 1850 that the Superintendent of Public Instruction discussed at some length the improvement of the conditions in rural schools and the raising of the standard to a position commensurate with the responsibility placed upon such schools. In 1859, when the law permitting the establishment of graded school districts was enacted, seventy-five per cent of the children of the State were enrolled in the rural schools. At the present time conditions have changed so that nearly sixty per cent of the children are enrolled in city and graded school districts and the balance in the rural schools.

The character of the work done in rural schools has changed from time to time, but it is still true that the work of the rural school covers but little more than the so-called "common branches." In very few schools is there any attempt made to teach advanced subjects. In the last report of this Department, this subject was discussed at some length and it was recommended that the proper school for the rural district is a two-room one with two teachers and a course of study covering ten grades, or ten years of work.

This would necessitate a re-arrangement of the districts in almost every township in the State but it would bring to the homes of the rural people added opportunities for training that are not now enjoyed. There are about 200 two-room schools in Michigan at the present time and these, for the most part, have been established without any consolidation of territory and are entirely satisfactory to the people so far as I can learn.

**State Course of Study.**

Some years ago a course of study for the rural schools was prepared under the authority of this Department. In a large percentage of the districts of the State this course is now in use. There has been a feeling in some quarters that the districts were confined to the course of study given for the first eight grades and that they had no authority to include branches above this. This is a mistaken idea as the Legislature has given to each school district authority to select its course of study and adopt the same and the school board has authority to do this and to include any branches they desire to have taught. The present State Course of Study provides for advanced subjects. Therefore, so far as the course of study is concerned, it is within the power of the people to adjust it to their wishes. It will be perfectly clear to anyone who will visit the rural schools and investigate the character of the work done that it is a physical impossibility for the average teacher to teach more subjects than are given in the first eight grades. There are a large number of rural schools where the full eight grades are represented among the students and in these schools teachers are struggling with from twenty-six to thirty-two classes per day, giving on the average not more than twelve minutes to a single class. The attempt to teach all these subjects within the hours custom has fixed for the school day is, in my judgment, largely the cause of the poor work found in a large number of schools. A class in arithmetic, consisting of four or more pupils, can be taught very little in a recitation period of ten or fifteen minutes. A class in reading or language or geography will get very little good out of their subjects in the limited time allotted to them. I therefore wish to repeat the recommendation made last year, and state emphatically without fear of successful contradiction that adequate results cannot be secured from the rural schools as they are now organized.

**Best plan for improvements.**

All our people are interested in better schools and desire their children to get a good education, yet they seem slow to take the necessary steps that will remedy the condition. I repeat the recommendation that every school should contain at least two rooms and two teachers and that the territory should be re-adjusted so that there shall be an adequate taxing area to support properly each school without making a serious burden upon the individual taxpayer. All that is necessary to be done is for the people of a township to get together and look this matter squarely in the face and to give consent that the board of school inspectors shall re-arrange the districts of the township. Many townships in the State have fifteen or more school districts and this gives on the average but little over two sections of land to each district. Probably no two school districts pay the same rate of taxation and some that are least able to pay taxes have the highest rate to pay. No doubt there are inequalities in taxation for State and county taxes but these are nothing as compared with the unequal and unjust school tax generally levied in the State.

**Consolidation.**

In order to give our people an idea of the growth of sentiment along the line of consolidation of school districts, and to give them a summary of the things already done, the reports received from the several county commissioners of schools are given below.

Allegan County. In this county is one good example of a consolidated district—the village of Martin—where three districts were united into one. Three teachers are employed in this school and they have an eleven grade course of study. There is no transportation employed in this district.

Branch County. No specific consolidations further than the division of some districts and the adding of the divided territory to other districts already organized. Three districts are contemplating consolidation in the near future.

Charlevoix County. In this county is one example of consolidation.

This was brought about by a special act of the Legislature practically uniting the territory of three districts into one.

Genesee County. In Grand Blanc, three districts were consolidated into one, a ten grade course of study is pursued, there are 124 pupils attending the consolidated district, three teachers are employed and two hacks are used to convey the pupils to and from school. In the Mt. Morris district, two districts were consolidated, the course is an eleven grade one, 209 pupils attend, four teachers are employed, and one hack is used.

Grand Traverse County. Here is another good example of consolidation where two districts were united into one and the course of study increased to ten grades. This district now has 125 pupils and three teachers. Some transportation is given in this case.

Jackson County. Here is one case of consolidation of three districts into two. Only eight grades of study are pursued and one teacher is employed in each school.

Isabella County. One good example of consolidation is found here where two districts were consolidated into one and they now have 65 pupils. They are pursuing an eight grade course of study and employing two teachers.

Oakland County. There are three cases of consolidation here. Two districts in each case were consolidated into one. In two of the districts, an eight grade course of study is pursued and in the third a ten grade course of study pursued and two teachers employed.

Kalamazoo County. In the report of 1905, there was given an extended account of the consolidated district in Comstock and Richland townships. This school is still in operation. In August, 1906, districts 1 fr., 5, 9, 15 fr., and a part of district No. 2 united to form district No. 1 fr., Comstock. With one exception this is the strongest district in the county outside the city of Kalamazoo. The school census of the new district is 220, attendance 165, valuation, $500,000. A full high school course of twelve grades is provided. Pupils living beyond walking distance are transported to and from school in comfortable wagons. Three routes have been established ranging from four and one-half to five and one-half miles. Seventy-five pupils are transported (an average of twenty-five to the route) at a cost of forty dollars per month for each wagon. The children are greatly pleased with the plan and the patrons are satisfied. The percentage of attendance for the first month was ninety-eight, with no tardiness.

The plan is being considered in other parts of the county, notably at Portage and Oshtemo, both of which are splendid points for central schools. The success of the Comstock school is being watched with interest and some definite action will doubtless be taken in other districts soon.

In a number of other counties the reports show that districts have been enlarged by the division of a district and the taking of the territory so divided and attaching it to other districts. The reports of the commissioners show that, in the counties mentioned, above thirty-five districts are now seriously considering the matter of consolidation and it is expected that, in the comparatively near future, the majority of these will have accomplished what they desire along this line. Practically all the commissioners report a good many districts in favor of larger school districts.

The matter mentioned above of the establishment of two-room schools for each rural district has not been very largely brought before the people. It seems as if this is a question that could profitably be discussed in the several Granges and Farmers' Clubs of the State. We have a sufficient number of two-room schools so that ample information could be secured as a basis for these discussions.

**Transportation.**

The transporting of pupils to and from school is in operation in about ten different counties or townships in the State. Some of these are in the Upper Peninsula. Two townships in Menominee county, the townships of Stephenson and Myers, have employed transportation for several years and the results are entirely satisfactory to the people.

**Training of rural teachers.**

The fact that it has been difficult to get trained teachers for the rural schools has hindered a rapid improvement of conditions along the lines suggested above but with the establishment of courses of study for rural schools in our four State normal schools and the establishment of county normal training classes in thirty-two counties of the State this great need will soon be met to such a degree that the people will be able to secure either persons of maturity and experience or persons of special training to manage these consolidated schools. As is recommended in another place in this report, the establishment of a school improvement society or club in every township would materially assist in furthering the school interests along all lines.

## MANUAL TRAINING.

In this brief discussion of the subjects of elementary agriculture and manual training I wish to state that what may be said here is applied to rural schools only and has no reference whatever to work that is being done in our graded and city schools.

In the last report of this Department a careful report was given from the several cities and graded schools on the subject of manual training. In the reports from the county commissioners above referred to they also state that, in about 350 rural districts, instruction in manual training has been given during the past year.

This Department began the discussion and agitation of manual training in 1899 and a pamphlet was published giving the result of a careful investigation of the subject by a representative of the Department. The manual training reported upon at that time had reference almost entirely to the work of city schools and related to the use of tools, wood working, iron working, etc.

**Manual training bulletin.**

During the year 1905, this Department prepared a pamphlet on the subject relating wholly to the work of rural schools. This pamphlet gave suggestions in regard to work in paper folding, use of rulers and dividers, cardboard cutting, basket making, weaving, string work, rope work, sewing and raffia work. These are the simplest forms of manual training to be introduced into the lower grades. The commissioners who report as stated above indicate that quite a large part of this work has been done in the 350 schools mentioned. This work is an excellent basis on which to continue manual training in the form of knife work and wood work.

**Benefits.**

The following are the essential benefits to be derived from this elementary form of manual training in rural schools:

First, The acquirement of manual dexterity. The proper uses of the hands in drawing designs and in giving the design actual existence.

Second. The exercise of his individuality. He is taught to make a certain plan and is left to develop and execute it.

Third. The securing of self-reliance and cultivation of perseverance.

**Results of experience.**

Experience shows that manual training is an important factor in the building of character. This must necessarily follow from the benefits named above. It is also the uniform verdict of superintendents of schools that the introduction of manual training prolongs the school life of the child by interesting him in the actual application of the principles of mathematics and science in the work of the bench and shop. It is a self-evident fact, too, that this application of the knowledge gained in the class room to the practical affairs of everyday life increases the mental and moral fiber of the child's being and brings out the best there is in him.

I am much pleased to give this brief statement in regard to results already attained in the line of manual training in the rural schools. It is but a beginning and as the future of this subject in the public schools is in the hands of the parents and teachers, I feel perfectly confident that it is secure.

## ELEMENTARY AGRICULTURE.

**Teaching of.**

**School gardens.**

The subject of nature study in the public schools has been discussed by teachers and superintendents for a number of years. This Department has published outlines especially on this subject and distributed them to the teachers of the State. Specific instruction has been given in nature study, or elementary agriculture, in two of our normal schools and in nearly all the county training classes. As a result of this instruction the county commissioners, in their last annual statement to this Department, report that in about 300 districts in the State some elementary agriculture is being taught. It must be remembered that this work is not extensive but that it deals with the simple problems of everyday life on the farm. Some of the elementary principles of physics and chemistry are illustrated and the children are taught to observe common phenomena that have to do with rural life. The American people will not become a nation of gardeners because of the broad expanse of our territory but if the American farmer can learn the value of a small piece of ground, carefully and systematically cultivated as a garden, he will have learned one of the most important lessons of his life. School gardens are entirely within the range of possibility for the rural schools. In order to make them successful we must first have teachers who have received some definite instruction as to what to do and how to do it, and then we must have the sympathy and cooperation of the parents. No teacher can succeed in any line of work which the people regard either as a fad or as a piece of foolishness. It is a common failing of the American people that when any new idea of educational matters is presented it must, for a series of years, be considered as a fad or as the cranky notion of some unbalanced mind. When the American people come to understand that the ideas and opinions of experts in education are to be given as much weight as the ideas and opinions of experts in the lines of mechanics, engineering, art or architecture, a real advance along educational lines will then be seen, but so long as the original thinker along lines of education is held up to ridicule and men who have no special training in educational matters are permitted to place the stamp of disapproval or absolute prohibition upon the efforts of such an educator and investigator, we shall have unsatisfactory conditions in connection with the public school system.

There is great reason for congratulation in Michigan that the matter of elementary agriculture has reached its present stage in so short a time, and I am ready to accord the honor of this advance to our sturdy, painstaking, and conscientious rural school teachers who have had the energy to secure some knowledge along this line and the courage to put the work in actual operation.

## NEW STATE COURSE OF STUDY.

The work of education has been an evolution. The student of history of education is struck with the numerous different plans of child training and the peculiar ideas in regard to courses of study that have been advanced during the past two hundred years. Many experiments have been tried. Some of them have proven successful and others have not. The ideas of Pestalozzi, Froebel, Lancaster, Arnold, and others have been in part incorporated into public school work. Some educators have taken extreme grounds and have later been obliged to revise their ideas and plans. One unfortunate thing in connection with this evolution has been the effect of the experimentation upon the children. Extreme views and their introduction into courses of study must be guarded against. The demands of the people and the demands of the educators have not always been identical, and certain classes of people have termed all educators faddists, but this again is an extreme view and is not to be given very much weight. The public school exists for the children and this must never be forgotten in all the changes and vicissitudes incident to educational progress.

**Purpose of new course of study.**

The new Course of Study presented to the teachers of Michigan is the seventh edition. Six previous ones have been issued from time to time by the Department. In each it is clear that an attempt has been made to present the best educational ideas up to that date. It must always be remembered that the Course of Study is made simply as a general guide and not as an unchangeable something to which every child must be fitted. In presenting this, the seventh edition, to the teachers of Michigan the Department may be pardoned for acknowledging a desire to keep Michigan in the van of educational progress. The changes made are such as will be accepted and applied easily by our teachers. The especial changes are found in the language, arithmetic, and geography work, and in the introduction of short selections to be memorized or studied at the proper time.

**Language.**

In language, for instance, more oral work is recommended. The child learns to speak correctly only by speaking. Experience has shown that the child does not learn to speak English correctly through written exercises. While he must be taught to write good English, he must first learn to speak good English. No textbook in language should be used before the fourth grade and it would be better if the textbook were not introduced at all until the fifth grade. When the book has been introduced as guide the teacher should constantly remember that the oral language work must precede the written and it should be given especial attention in all the classes of the school. Language is not properly taught if a child is required to use good language in the language class and then permitted to speak in any manner he pleases at other times of the day. The language of the playground should, as far as possible, be the language of the class room.

**Arithmetic.**

In arithmetic, no textbook of any kind is to be used before the fourth grade. If the child were taught concrete numbers, that is, the concrete basis of numbers and only this, until he reached the sixth grade he would be in condition to complete the ordinary common school arithmetic in the succeeding three years and do it thoroughly. The time gained from these subjects could be utilized to much better advantage in manual training, nature study, drawing, and reading.

**Geography.**

In geography, the textbook is not to be used at least before the last half of the fourth year. The Course of Study presents proper introductory work to be done before that time, which may be classified as nature study or an attempt to bring the child into contact with the world around him and to appreciate the relations that exist between man and the earth as a subject of study. The advance work in geography and history has been modified somewhat. The commercial side of geography is emphasized in order to introduce the child, both through geography and arithmetic, into the great active world into which he will soon be plunged as a factor in working out the destiny of the human race.

**Use in two-room school.**

It may not be out of place to reiterate here that the Course of Study is much better adapted to the work of a school of two departments than to that of one department. I believe that no school in Michigan should have less than two teachers if the product that the people desire is to be obtained from the school. Our people are continually requesting that practical things shall be taught, and the field of practical things has become so broad in these modern days that there is really no end to the list of things in which the child may be instructed, each of which should have an actual relation to the world in which he lives.

In the use of this Course of Study the teacher in the one-room school should thoroughly master it beforehand. Then there should be a consolidation of classes. The work of the fourth, fifth, sixth, and seventh grades should be so correlated that the number of classes may be reduced by one-half. The instruction of the eighth grade should not be correlated with the lower grades so closely, because the eighth grade, besides giving the specific instruction, should be made a preparatory year for entering the high school. I believe it is right to take it for granted that every child will complete the high school course, and the work of the first eight grades should be done with this in view. I believe it can be done without in the least interfering with what is sometimes called the "practical" ends to be gained. The teacher in a one-room school must not be discouraged by the number of things she is to teach. Her chief work is to organize, simplify, and intensify the work so that each child in his course of the first eight grades shall learn to discriminate between important and unimportant things and actually secure "a common school education." If the Course of Study is followed and the text-book work is arranged carefully according to the suggestions, there will be fewer classes, more time for each recitation, and more thorough work in each subject. Arithmetic, for instance, will be taught at a time when the child is old enough to comprehend it. Formal grammar, in the same manner, will not be pushed upon the immature childish mind. Geography will be presented as something tangible, and the child will actually learn to see and understand the world around him. Reading will become the key which will unlock all the educational mysteries to the child and he will learn to speak and write intelligently.

**Use in one-room school.**

Again, the teachers should be cautioned against the slavish use of any course of study. Master it thoroughly. Apply the best pedagogical principles in working out the several subjects to be taught, and then our common schools will become real institutions of learning where the child will learn to think and act for himself.

## APPROVED PHYSIOLOGIES.

Act 164 of the Public Acts of 1887, in one of its provisions, requires that instruction shall be given in physiology and hygiene with special reference to the nature of alcohol and narcotics and their effects upon the human system. It further requires that this instruction shall be given by the aid of text-books and all books adopted for such instruction shall give at least one-fourth of their space to the consideration of this subject. The law requires that text-books used in giving such instruction shall first be approved by the State Board of Education. This provision of the statute was an amendment to the original act and since it became law the State Board of Education has from time to time carefully examined the books submitted by the several publishing companies. In order that our people may know what books have been approved, so that no mistake shall be made by school boards in the adoption of these books, I deem it wise to give in full the list of text-books approved up to the present time.

Allyn & Bacon, Boston—Walker's Anatomy, physiology, and hygiene.

American Book Co., Chicago—Principles of hygiene. Lessons in hygiene. Health for little folks. Hygienic physiology. Hygiene for young people. The house I live in. Child's health primer. Eclectic guide to health. Young people's physiology. Youth's temperance manual. Smith's Primer of physiology. Smith's Elementary physiology. Tracy's Outlines of anatomy, physiology, and hygiene. Kellogg's First book in physiology and hygiene. Kellogg's Second book in physiology and hygiene. Hewes' anatomy, physiology, and hygiene for high schools. Overton's Primary physiology. Overton's Intermediate physiology. Overton's Advanced physiology. Hall's New century primer of hygiene. Hall's Intermediate physiology and hygiene. Hall's Elementary anatomy, physiology, and hygiene. Macy and Norris' General physiology for high schools.

D. Appleton & Co., New York—Krohn's First book in hygiene. Krohn's Graded lessons in hygiene.

E. H. Butler & Co., New York—Physiology and health, No. 1. Physiology and health, No. 2. Physiology and health, No. 3.

Eldredge & Bro., Philadelphia—Mill's First lessons in physiology and hygiene.

Ginn & Co., Chicago—Blaisdell's Child's book of health. How to keep well. Our bodies and how we live.

D. C. Heath & Co.—Colton's Physiology (Briefer course.) Colton's Physiology, experimental and descriptive.

Henry Holt & Co., New York—Martin's Elementary course in physiology. Martin's Briefer course in physiology. Martin's Human body and the effects of narcotics.

Leach, Shewell & Sanborn, Boston—Brand's Good health for children. Brand's Lessons on the human body. White's Physiological charts. Smith's Physiology and supplementary charts on effects of alcohol on the human system.

J. B. Lippincott & Co., Philadelphia—Cutter's Beginner's physiology. Cutter's Intermediate physiology. Cutter's Comprehensive physiology.

A. Lovell & Co., Chicago—Practical work in the schoolroom (Pupil's edition). Practical work in the schoolroom (Teacher's edition).

Macmillan & Co., Chicago—Coleman's Elements of physiology. Coleman's Physiology for beginners.

Maynard, Merrill & Co., Chicago—Physiology and hygiene. Our wonderful bodies, first book. Our wonderful bodies, second book. Hutchinson's First lessons in physiology. Hutchinson's Second lessons in physiology.

Sheldon & Co., Chicago—Ellis' Primary physiology.

Silver, Burdett & Co., Boston—A primer of health. A healthy body. The essentials of health. Handbook of simple experiments in physiology. Conn's Elementary physiology and hygiene. Conn's Introductory physiology and hygiene.

University Publishing Co., New York—Eadie's Physiology and hygiene for children.

Werner School Book Co., Chicago—Baldwin's Primary lessons in physiology. Baldwin's Essential lessons in physiology. Baldwin's Advanced lessons in human physiology. Dunglison's Elementary physiology. Dunglison's School physiology.

## COMPULSORY ATTENDANCE LAW.

The new law governing compulsory attendance at school has now been in operation one full year and the results have been all that could reasonably be expected. The fact that it did not take effect until after the schools were opened in the fall of 1905 made it difficult to get the law into immediate and effective operation, but those who are charged with the duty of enforcing this law, viz., the county commissioners of schools and the city superintendents and boards of education are entitled to a large measure of credit for the excellent spirit in which they entered upon the enforcement of the law and the results that they have already secured.

**Increased attendance.**

The statistical tables for this report are not yet prepared, so it is impossible to give exact figures on the increase of attendance through the operation of this law, but the most reliable information obtainable at this time indicates that it has been increased by the operation of this law by at least ten per cent. Whereas under the old law the actual attendance at school was only about 60 per cent of the census. I feel confident that the figures this year will show the actual continuous attendance above 70 per cent. Reports from truant officers to this Department indicate that about 50,000 children who have either never attended school or have attended irregularly heretofore have been brought into continuous attendance. This means that we have had in actual attendance at school 50,000 more children than ever before. In a State where we boast of our educational privileges, our educational spirit, and our expert teachers, it is rather startling to find that 50,000 children who should have been in school continuously were found outside the schoolroom and outside the reach of educational influences. It is a strange thing that in Michigan we can find parents who are absolutely indifferent to the education of their children, or who are absolutely opposed to education, and yet they are in almost every community. It probably is not wise to speak harshly of such people, but if there is anything that will try the patience of a school officer it is to find in his school district, or in his county, a person who refuses to send his children to school.

**Causes of non-attendance.**

There is another phase of this matter to which we have given considerable attention. A large number of people who are on small places are dependent upon the product of these small farms for their living. It is difficult for them to secure help, or, in some instances, they claim it is impossible to hire help, therefore they think they need their children in the fall and spring to assist with the work. No doubt they do, but there are two sides to this question even. Which is preferable, to keep the child out of school now and deprive him of educational privileges and thus shorten his educational career and lessen his earning capacity in the years to come, that is, to prevent him from occupying the place he might otherwise fill, or for the parent to keep the child in school and give him all these privileges, even at the expense of crops and money for the present? It is my opinion that the latter plan is preferable.

I think the law should be modified in some particulars. It has been practically inoperative in many of our villages because the village marshal was made the truant officer. I think this feature of the law should be abolished, for if there is any place where the child should be in regular attendance at school it is in villages and cities, where the parents do not need his assistance so much.

**Other results of enforcement.**

Take it altogether, I am well pleased with the operation of this law. It has resulted in bringing into our eighth grade examinations hundreds of children who might otherwise never have been brought up to this standard. The law provides that if the child has completed the first eight grades, even though he be under the age limit, he is not required to attend school. This is one of the best features of the law, fixing a minimum educational standard. During the year 1906, in counties where there had never been more than 100 to take the eighth grade examination, we find from 200 to 300, eager and ready to make this test. The passage of this law was a valuable addition to our excellent code of school legislation and I urge upon the school officers of the State that they shall exert their best efforts to see that the law is thoroughly enforced.

## LIBRARIES.

**Maintenance.**

Section 12 of article 13 of the constitution provides for the establishment of a library in each township and that fines collected in each county for violation of the penal laws shall be appropriated to the support of these libraries. It provides, also, that the township board may give consent that these funds shall be used for other school purposes. The statute made in pursuance of this provision of the constitution as found in section 4752 and the following sections provides for the establishment of township libraries and of school district libraries, also that the fine money shall be distributed under the direction of the Superintendent of Public Instruction and shall be used for library purposes only.

The provisions of this library law have never been very satisfactory and it is hoped that the constitutional convention will so modify the above mentioned provision in the constitution as to simplify the collection and distribution of library funds. Reports from school officers from some counties, stated that they had never received their proper share of the library moneys so an investigation was begun. A special examiner visited as many counties as possible during the summer and carefully examined the books of the county clerks and treasurers, inquired into the practice of justice courts and circuit courts in levying fines and reporting the same to the county treasurer. The following counties were visited: Alger, Alpena, Cheboygan, Chippewa, Genesee, Iosco, Lake, Lenawee, Livingston, Mackinac, Macomb, Mecosta, Muskegon, Oakland, Osceola, and St. Clair.

**Investigation of library funds.**

A knowledge was desired of the amount of the library fund apportioned in June, 1906, of the amount per capita according to the school census and whether the instructions of the Department have been followed in the distribution. In general the instructions had been followed but there was no uniform practice of levying these fines and in reporting them to the county treasurer. In Alger county, for instance, none of the circuit court fines from January, 1903, to September, 1906, had been transferred to the library account. In Chippewa county, two forfeited bonds in 1900 had been placed in the contingent account of the county. In Muskegon county, several hundred dollars had been transferred to the contingent account from the library account, and in Lake county, something over $200 had been thus transferred. In Macomb county, there was a shortage in all the funds, due to the defalcation of a former treasurer, and that which had been taken from the library account had never been made good. In Lenawee county, quite a large sum had been transferred from the library account to the contingent account. In Oakland county, about $685 had never been credited to the library account. Since the inquiry, reports from nearly all these counties state that the fine money has been transferred to the proper accounts and will be apportioned in June, 1907. County treasurers are not careful to apportion this money in strict accordance with law and on the date which the law prescribes, June 1.

**Apportionment of funds.**

In addition to examining the records of the county officers, there was further investigation in regard to the use of these moneys by school districts. In some counties the districts use the money properly, but in a very large number of districts in the State, library moneys are either placed in the general fund or used for incidental purposes or in some way so that the library receives no benefit. It seems strange that any school districts in Michigan should place so low a value upon the advantages to be derived from a good working library. Also, in many counties, the justices of the peace are very slow in reporting fines levied by them, in many instances the fines are never reported at all, nor are they accounted for in any way. In some of the counties, special investigations have been made under the direction of the board of supervisors by expert accountants and these accountants have discovered these illegal practices and reported them to the board of supervisors, so that, in the future, the money will very likely be properly credited and to the proper account. In some counties the county officials seem to feel that it is unjust to collect fines and turn them over to the library account, and require the county to stand the full expense of conducting the suit and in order to ease their con-

**Use of library funds.**

sciences and lessen the tax rate the fines when collected have been quietly turned in to the general account of the county.

**Needed improvements in law.**

It is my opinion that one of two things should be done. Either the constitution should be amended by providing that these fines shall be absolutely used for district library purposes, or the whole matter should be abolished. At all events, the provision in the statute for township libraries should be abolished and every school district should be required to maintain a library. When a law on the statute books does not receive the support even of county officials, to say nothing of the people in general, the quicker it is repealed, the better. I trust that the legislature of 1907 and the constitutional convention which will convene in the near future will carefully investigate these conditions and devise a proper remedy for the evils that exist.

## COUNTY NORMAL TRAINING CLASSES.

In the report of this Department for the year 1905, the bulletin containing the rules and regulations governing county normal training classes, the course of study, and syllabus of work were given in full. As no changes have been made in this bulletin, it will not be republished.

**Location.**

There are now thirty-two county normal training classes in operation, seven new classes having been authorized for the school year 1906-7. The thirty-two classes are located in the following counties:

Arenac,
Antrim,
Charlevoix,
Clinton,
Gratiot,
Kalkaska,
Oakland,
Osceola,
St. Clair,
Wexford,
Barry,
Ionia,
Ingham,
Iosco,
Macomb,
Mason,
Mecosta,
Midland,
Oceana,
Shiawassee,
Calhoun,
Cass,
Manistee,
Newaygo,
Otsego,
Allegan,
Branch,
Lapeer,
Lenawee,
Ottawa,
Saginaw,
Van Buren.

**Graduates.**

The number of graduates from these classes in June, 1906, was 319. 350 had been previously graduated from these classes, making the total number of graduates at present who are teaching in the rural schools 669. There are about 500 students in attendance at these thirty-two classes this year.

**Trained rural teachers.**

Practically one-half of the children of the State are taught in rural schools, and in these there have been only a very few specially trained teachers in the years gone by. This year one-eighth of the rural schools of the State are being taught by teachers who have had special training. In addition to these who have been graduated from training classes, quite a number are teaching in rural schools who have completed the rural course of study in one of the State normal schools. This great change in the personnel of the teaching force has been brought about within the last three years. I am convinced, from the cordial reception given to these teachers by the people of the counties where training classes are established, that there is no question as to the success of the movement.

**Results of training classes.**

The county commissioners of schools in the counties where the training class work has been done state emphatically that the establishment of the class has improved the educational spirit, advanced wages, and increased the professional spirit of the teaching force of the county. They state, also, that the graduates themselves show the results of the training in improved methods of instruction, careful preparation of lessons, clear presentation of each subject, and in the general control and management of the school. These are the points most vital in connection with the school work, and the reports of the commissioners show conclusively the wisdom of the Legislature in authorizing the establishment of these classes.

**Organization of classes.**

The county commissioner is no small factor in the success of these classes. It is within his province to secure new students and to locate these teachers upon graduation in districts which most need them and for which their services are best adapted. It is within his province, also, to keep the matter continually before the people of his county by discussion in farmers' institutes, farmers' clubs, and granges, as well as in county teachers' associations.

**Instructors.**

These classes have been extremely fortunate in the persons who have been secured to give instruction. The plan usually followed is to employ one special instructor, who gives her whole time to this work, she being assisted by special teachers employed in the public schools where the class is located, and the superintendent of schools. Thus, at the smallest possible expense, we are securing the services of experienced superintendents and expert special teachers. I believe that in the near future it will be well to employ two special teachers in each training class, who will give all of the instruction under the supervision of the superintendent of schools. In this way even better results will be attained.

**Value of training classes.**

As has been said before in the report of this Department, I consider the establishment of the county training class one of the greatest steps educationally that has been taken in Michigan in recent years. Trained teachers are going into schools that heretofore could not get them, and the improvement of the teaching force of the State is one of the most vital matters in connection with our educational system. All other matters are subordinate to the efficiency of the teaching force. Time alone will reveal the full value of the benefit derived from the work done in these classes.

Summer sessions.

In addition to the regular work done during the school year, summer sessions of from two to four weeks were arranged in fourteen of the counties during the summer of 1906, the instruction being given by the county training class teachers. This afforded an opportunity for additional instruction and training for beginners and for others who were unable to attend the regular classes during the year. These summer sessions are called "county normal institutes," and I give herewith the contents of the bulletin containing the course of study and syllabus of work for them.

## BULLETIN NO. 18.

### COUNTY NORMAL INSTITUTES.

In order to give an opportunity for professional training to all the teachers in counties where county normal training classes are established, we plan that the faculty of the regular training class, together with such other assistants as may be necessary, shall conduct a summer session during a period of four weeks. In some counties it will not be possible to have more than two weeks, but the plans of work and course of study will be practically the same in each case.

Each instructor should have two points in view in presenting this work: First, the facts, or academic instruction; second, professional training, which includes means and methods of presenting the subjects to pupils. We desire that the work shall be thorough over the field attempted and we should not endeavor necessarily to complete or cover all the points in any one subject. With the exception of the practice teaching, the work should be of the same nature as the work of the regular county normal training classes. We believe that if this work is properly presented it will add to the efficiency of the teaching force of the county and at the same time strengthen the work of the county normal training classes and attract students to them.

The commissioner of schools should see to it that every teacher and every person who expects to teach is informed in regard to this work and urged to be present. The result of the August teachers' examination will in many cases depend very largely upon the work done in this summer term, and while the work is not presented for the specific purpose of assisting in passing the examination we are not to forget that feature of it. Emphasis must be given, as said above, to the academic and professional work which is of the first importance. In addition to the regular work of the course a certain time should be set apart for round table discussions, questions and answers in regard to everyday work of the schoolroom, and these discussions should be for all the teachers and all the instructors.

We desire that the course of study given herein shall be followed very carefully. The course is based on a four-weeks' term and the instructors where only two weeks are given for the work should carefully adjust the amount of work to be presented so that whatever work is done may be thoroughly completed. The teacher of manual training should consult with the commissioner in regard to the amount of supplies necessary and see that they are procured in advance. The text-books used will be those in general use in the county. Each instructor should carefully study and analyze the following course of study and syllabus.

## COURSE OF STUDY.

### ELEMENTARY COURSE.

#### BEGINNERS AND THIRD GRADES.

Pedagogy and school management.
Primary reading. Two weeks.
Advanced reading. Two weeks.
Language and grammar.
Arithmetic.
Geography.
State Course of Study.
Manual training.
Drawing.
Music.
Nature study.

### ADVANCED COURSE.

#### FIRST AND SECOND GRADES.

Pedagogy and school management.
History.
Civics.
General history.
Algebra or botany.
Manual training.
Drawing.
Music.
Nature study.

Note.—General sessions for manual training, drawing, music, nature study, spelling, writing. Students may elect from both courses if able to carry the work.

## SYLLABUS OF WORK.

### SPECIAL SUBJECTS.

**Spelling.**—A twenty-minute exercise in oral spelling for the whole institute each alternate day.

**Writing.**—Special instruction and practice in writing. Twenty-minute session for the whole institute alternate days with spelling.

**Music.**—A twenty-minute exercise for the whole institute each morning. Give exercises in formation of staff, note reading, time, together with rote singing. The rote singing should include songs suitable for the schools.

**Nature Study.**—Present and discuss the course in nature study as given in the new State Course of Study for district schools. Probably this can best be done in a regular session, for a short time, two days in the week.

**Manual Training.**—The exercises in manual training should include exercises in drawing. Instructors will be careful to present each lesson as a model lesson in teaching as well as in the practice. If instructors are unable to take all the exercises given below, give careful attention to the matter of paper folding and paper cutting. The instructor should do all the work in full view of the teachers, holding the work so that they may see the hand manipulation. It may be well to use a sloping board placed upon a table behind which the instructor stands and reaches over to do the folding. The color work, if undertaken, may be done with the work in drawing. I would suggest three days each week for the manual training and two days for drawing. This work should be presented to the entire institute, including the beginners and advanced students.

### *The Course.*

While it is desirable that work in manual training with paper should include paper folding and cutting, cardboard work, whittling, sewing, clay modeling, and shop work, it is impossible in the institute to do anything but the most elementary work. It is suggested that the following exercises be used, after which such additional work as the instructor wishes may be added.

### *Folding.*

Tablecloth, house, windmill, sailboat, cup and saucer, boy's hat, general's hat, fan, shawl, etc.

### *Cutting.*

Working drawings should be made of the following before the paper is cut: Envelope, wall pocket, pin wheel, picture frame, cubical box, box with cover, triangular box, hexagonal box, octagonal box, cone, lamp shade, curved edge box.

### *Color Work and Designing.*

A few exercises might be given in designing with colored paper. In this work, owing to lack of time, little original work can be done by the teachers. They should be encouraged, however, to do original work and to have their own pupils originate some designs both in color and in plain paper.

### *Weaving.*

In weaving teach the following:

For baskets,—

1. Terms:—*spokes; weaver* or *filler; under* and *over* weaving; *pairing; triple twist.*
2. How to place the "spokes" to start a basket.

For mats,—material.

3. How to make a simple hand loom for weaving mats.
4. How to prepare raffia, rushes, corn husks, twine, for use in making mats and baskets.
5. How to start a basket or mat.

### *String Work.*

Weaving nets, hammocks, and bags.

**State Course of Study.**—Two lessons each week should be given upon the Course of Study proper as to content, arrangement, and especial attention should be given to the reading, number work, and language of the first four grades. This may be used to include the subject of primary methods. More time may be given to this work, if found necessary.

## ACADEMIC SUBJECTS.

### ELEMENTARY COURSE.

**Pedagogy and School Management.**—In pedagogy study the intellectual faculties, methods of reasoning and development of mental powers, the seven principles of teaching as presented by White, with discussion of methods. In school management base the work on White's "School Management," the seven requisites of the teacher, conditions of control, principles of moral training, principles of will training, and school incentives.

**Primary Reading.**—This will be taken in connection with the work in the Course of Study and primary methods. Actual exercises and lessons in primary reading should be presented.

**Advanced Reading.**—Make a careful study of the selection for teachers' examinations,—Intimations of Immortality, by Wordsworth, or The Gray Champion, by Hawthorne.

**Language and Grammar.**—Give half the time to specific lessons in language work for the lower grades. Follow this with a careful study of the parts of speech, verbs, syntax, and idiomatic constructions.

**Arithmetic.**—Present methods of teaching the fundamental processes, fractions, and percentage with its applications. Frequent exercises in mental arithmetic are advised.

**Geography.**—Physical features of the earth, Michigan geography, geography of the United States.

### ADVANCED COURSE.

**Pedagogy and School Management.**—Same as above, adding the fundamental facts of psychology.

**History.**—Give careful study to the period beginning with the adoption of the Constitution and the several important problems settled during that period.

**Civics.**—Careful study of the United States Constitution.

**General History.**—Study medieval history.

**Algebra and Botany.**—Present as needed according to the advancement of students.

The foregoing syllabus should be carefully mastered and each instructor should plan to do thoroughly as much of the work as can possibly be done in the period prescribed. We want this work to be intensive and the professional side should be emphasized in every lesson.

# TEACHERS' EXAMINATIONS.

The matter of granting teachers' certificates upon examination has been one that has caused commissioners and superintendents much anxiety. Everyone realizes that an examination cannot be a complete test of the teacher, nor can it show to any large extent whether the person is qualified to enter the schoolroom as an instructor and trainer of children.

**Plan for reading.**

My predecessor in office began the plan of announcing in advance special subjects for examination in reading and the results that have been secured from this line of work have been excellent. County commissioners unite in stating that no one change has ever added more to the effectiveness of teaching reading than this plan of conducting teachers' examinations. The several subjects for reading have been announced at least half a year in advance of the examination and an opportunity given for careful study of the selections before the examination.

As a matter of permanent record I think it well to give the list of selections that have been studied by our teachers and eighth grade students during recent years. The list is as follows:

## MASTERPIECES FOR TEACHERS' EXAMINATIONS.

| | | |
|---|---|---|
| March, | 1901. | To a Waterfowl. Bryant. |
| March, | 1901. | Good-bye Proud World. Emerson. |
| June, | 1901. | Evangeline (selections from). Longfellow. |
| August, | 1901. | Enoch Arden. Tennyson. |
| October, | 1901. | Elegy. Gray. |
| March, | 1902. | Vision of Sir Launfal. Lowell. |
| June, | 1902. | The Courtship of Miles Standish. Longfellow. |
| August, | 1902. | Merchant of Venice. Shakespeare. |
| October, | 1902. | Deserted Village. Goldsmith. |
| March, | 1903. | Vision of Sir Launfal. Lowell. |
| June, | 1903. | Sesame. Ruskin. |
| August, | 1903. | American Scholar. Emerson. |
| October, | 1903. | A Rill from the Town Pump. Hawthorne. |
| March, | 1904. | Canto V, Lady of the Lake. Scott. |
| June, | 1904. | Cotter's Saturday Night. Burns. |
| August, | 1904. | Act III, Julius Caesar. Shakespeare. |
| October, | 1904. | Thanatopsis. Bryant. |
| March, | 1905. | Silas Marner. Eliot. |
| June, | 1905. | Legend of Sleepy Hollow. Irving. |
| August, | 1905. | Elegy. Gray. |
| October, | 1905. | Oration at Laying the Corner-Stone of the Bunker Hill Monument. Webster. |
| June, | 1906. | Act III, Hamlet. Shakespeare. |
| August, | 1906. | Intimations of Immortality. Wordsworth. |
| October, | 1906. | Gray Champion. Hawthorne. |

## MASTERPIECES FOR EIGHTH GRADE EXAMINATIONS.

| | | |
|---|---|---|
| May, | 1901. | Concord Hymn. Emerson. |
| February, | 1902. | Snow-Bound. Whittier. |
| May, | 1902. | Planting of the Apple Tree. Bryant. |
| May, | 1903. | Great Stone Face. Hawthorne. |
| May, | 1904. | Paul Revere's Ride. Longfellow. |
| May, | 1905. | Barefoot Boy. Whittier. |
| May, | 1906. | Landing of the Pilgrims. Hemans. |

In order to test this plan a little further, announcement was made February 14, 1906, that in the subjects of arithmetic, grammar, geography, history, and civil government the several examinations would be based upon certain phases of those subjects and a bulletin was prepared and distributed to all the commissioners and through them to all the teachers or prospective teachers in the State. This was Bulletin No. 16 and is given herewith in full. This also contains the rules governing examining boards in conducting teachers' examinations. The success of the plan for the past year leads me to recommend that it be continued at least for a term of years.

## BULLETIN NO. 16.

LANSING, February 14, 1906.

*To Commissioners, Examiners, and Teachers:*

After consulting with a number of commissioners, I have decided to change the plan of examinations by announcing in advance the different topics on which candidates will be examined in the several academic subjects named: reading, arithmetic, grammar, geography, history, civil government. This will give an opportunity for the teachers to prepare thoroughly in these subjects and they may expect a searching test. Instead of attempting to cover the whole of the subject in one examination, we shall make it specific upon certain things. A sufficient supply of these circulars will be sent to each commissioner, who will please see that every teacher and possible candidate is supplied. *These special topics will apply only for certificates of the third grade.* First and second grade examinations will be conducted on the entire subjects as usual. This is a new plan for Michigan but I believe it will furnish a better test of each teacher's proficiency. The order of topics can be changed in succeeding years. For the year 1906, therefore, dates and subjects will be as follows:

### DATES.

June 21-22.
August 9-10.
October 18-19.

### READING.

| | |
|---|---|
| June. | "Hamlet," Act. III.—Shakespeare. |
| August. | "Intimations of Immortality."—Wordsworth. |
| October. | "Gray Champion."—Hawthorne. |

### ARITHMETIC.

| | |
|---|---|
| June. | Fundamental processes and principles. |
| | Factoring, multiples, divisors, fractions—common and decimal—denominate numbers. |
| | Mental analysis. |
| August. | Percentage, including commission and brokerage, profit and loss, taxes, insurance, interest, stocks, trade discount. |
| | Mental analysis. |
| October. | Occupations—the mason, the paper-hanger, the lumber dealer, the carpet-man; proportion, mensuration; surfaces, solids; square root, cube root. |
| | Mental analysis. |

### GRAMMAR.

| | |
|---|---|
| June. | Orthography and word derivation. |
| | Nouns and their inflections (complete study). |
| | Pronouns and their inflections. |
| | Verbs and all their modifications. |
| | Parsing parts of speech. |
| | Paragraphing. |
| August. | Verbs and their modifications. |
| | Sentence study, or syntax. |
| | Comparison of texts on grammatical terms and constructions. |
| | Idiomatic constructions. |
| | Paragraphing and punctuation. |
| October. | Verbs and their modifications. |
| | Adjectives, adverbs, prepositions, conjunctions, and their various forms and uses. |
| | Sentence analysis. |
| | Sentence arrangement. |
| | Paragraphing and punctuation. |

### GEOGRAPHY.

| | |
|---|---|
| June. | Earth structure and physicial features. |
| | Michigan geography including physiography, resources, transportation, cities, commerce, institutions, history. |
| August. | Climate and distribution of life on the earth. |
| | General study of continents, including formation and physiography. |
| | Geography of United States, including divisions, physiography, resources, transportation, cities, and commerce. |
| | Possessions of United States. |

| | |
|---|---|
| October. | Eurasia (general study).<br>Africa (general study).<br>Australia and islands in Pacific and Indian oceans.<br>For each of these follow same suggestions in study as for United States. |

### UNITED STATES HISTORY.

| | |
|---|---|
| June. | The discovery and colonization of North America 1492-1763, to and including the overthrow of New France.<br>Development of our country, 1607-1906, including commercial and industrial development, inventions, etc.<br>Territorial expansion. |
| August. | The history of:<br>Slavery and secession.<br>Tariff.<br>Money question.<br>Growth of political parties.<br>Education.<br>Current events, including<br>Labor troubles and problems.<br>Trust problems. |
| October. | The Revolution, including the Critical Period.<br>The Constitution, including among other things<br>A study of the Federal Convention.<br>Comparison of Constitution with Articles of Confederation.<br>Northwestern Territory as a bond of union. |

### THEORY AND ART.

Based partly upon Dutton's School Management.

### CIVIL GOVERNMENT.

| | |
|---|---|
| June. | State, county, and city government. |
| August. | United States Constitution. |
| October. | President's Cabinet, and duties.<br>Governor's appointees, duties.<br>Ambassadors, ministers, consuls. |

## RULES GOVERNING EXAMINATIONS.

1. The packages of questions shall not be opened until the day designated for their use.
2. The commissioner shall then open them in the presence of the teachers and direct their distribution.
3. The questions for each half day must be finished before any applicant is excused.
4. Applicants, when absent at its opening, shall not be admitted to the examination, except by the unanimous consent of the board of examiners.

5. No candidate shall leave the room or communicate with any other candidate or any visitor during the examination, except by permission of the commissioner.

6. All papers must be written on legal cap paper, unless the commissioner prescribes or permits some other size.

7. *Penmanship should be marked from the papers, when no questions are given in this subject.*

8. The commissioner shall be the custodian of the examination papers at all times, and with the exception of first grade papers filed in this Department, they *shall be kept on file at his office* during the life of the certificate.

9. Applicants for third grade certificates shall be examined in writing, orthography, reading, grammar, arithmetic, geography, United States history, civil government, theory and art of teaching, school law, State Manual and Course of Study, physiology and hygiene with special reference to the effect upon the human system of alcoholic drinks, stimulants, narcotics and the causes and prevention of dangerous communicable diseases. Applicants for second grade certificates shall, in addition to the third grade branches, be required to write on two additional ones which they may select from the lists furnished in general history, botany, physics, and algebra. *They must also have taught successfully at least seven months in order* to receive a second grade certificate. Applicants for first grade certificates shall, in addition to third grade branches, be required to pass an examination in general history, botany, physics, algebra, and geometry. In order to receive a first grade certificate, the applicant must have taught at least twelve months. Two trials in the same year may be given applicants for first and second grades. *Third grade applicants must complete the work at one trial,* and standings must not be carried over.

10. Third grade certificates of class B are valid in *all* districts of the county in which they are granted. Third grade certificates of class A should be issued *only* to those who teach in primary departments (first four grades) of graded schools. Holding a certificate of class A does not legally qualify a teacher for any other school. *Boards of examiners must not grant certificates of class B to applicants who have done only the work required for a certificate of class A.* Each printed list is plainly marked and no mistake should be made. (See Sec. 6, Act 148, Public Acts of 1905.)

11. The rules given in Examination Form No. 2 must be observed strictly by all boards of examiners. Examining boards have no authority to accept standings from any educational institution.

12. Interpretation of Sections 4812 and 4813 as amended in 1905.

(a) The commissioner may, upon request, send second or third grade papers, upon which certificates have been granted, to another county.

(b) Said papers must then be "treated as if written" in such county, i. e., the examining board must examine them, and if approved, grant a certificate of the same date as the original (a duplicate as to dates). The Department designates such certificates as "transfers."

(c) Certificates cannot by "indorsement" by examining board or commissioner be made valid outside of county where granted.

(d) The examining board may renew the certificate of any person who has held two certificates with an average standing of 85 per cent and who has continuously and successfully taught during that period *in the public schools.*

(1) The teacher is not restricted to teaching in the same county.

(2) The examining board may renew any *original* certificate granted by them though the teacher may have had the same transferred, but has returned to original jurisdiction; and a "transferred" certificate may be renewed in the county granting the same, because the papers having been examined there, it is practically an *original* as to that county. In other words, an examining board may renew any certificate granted by them after an examination of proper papers.

(3) A "renewed" certificate cannot be transferred.

(e) A *special* certificate can be granted only on full examination in third grade branches, and a *second special* may be granted after three years.

(f) We would advise that third grades be not transferred unless absolutely necessary.

13. The program given below is *mandatory* and must not be varied to accommodate tardy applicants or for any other reason. Every subject must be written except those where credits are allowed for reading circle work.

FIRST DAY.

a. m.

Orthography and Spelling
Arithmetic, Mental and Written
Theory and Art.

p. m.

Geography
Government
United States History.

SECOND DAY.

a. m.

Grammar
Physiology
Reading.

p. m.

School Law
State Manual and Course of Study
Algebra
Botany
Physics (second grade)
General History (second grade).

THIRD DAY.

For First Grade applicants only.

General History, Physics, and Geometry.

NOTES.—1. In marking papers sent to this Department, special attention will be given in arithmetic to form of work, concise statements, and accuracy. In grammar allowance will be made for different authorities.

2. The Department will not report *standings* of first grade applicants but will mark the subjects "a" or "accepted," if the work is approved. Standings between 75 and 85 will be marked "m."

Respectfully submitted,

Patrick H. Kelley.

Superintendent of Public Instruction.

# TEACHERS' INSTITUTES.

The question of "teacher training" is one that has been discussed by preceding superintendents from all sides. That the teachers' institute is an important factor in "teacher training" will be admitted by all. The plan of conducting institutes in Michigan has been changed from time to time and it has seemed that it should be more systematic even than it has been and that it should be intensive and not extensive. Therefore a general plan for the work of all the institutes in the State has been submitted and that plan is outlined in the following bulletin. With it is given a list of the persons specially selected for institute work along the several lines. It probably never would be true that all the persons whose names appear on this list could be used in any one year, but having them at hand the Department can assist the commissioners in selecting instructors and in securing people on short notice who are prepared for the special lines of instruction needed.

**Summer institutes.**

In addition to this general plan or outline, another bulletin was prepared outlining the actual work to be done in the institute. The change has been very satisfactory to commissioners of schools and teachers. Twenty-nine counties were united with the four State normal schools for a six weeks' summer session and, as has been stated in another place, the attendance at these summer institutes and summer normal schools was very large. The Department visited each of these institutes and found the teachers enthusiastic and hard at work.

**Summer sessions of training classes.**

In fourteen counties where county training classes were in operation a summer session of from two or four weeks was provided. The attendance at these classes was very excellent, ranging from thirty to one hundred fifty teachers.

Upon visiting these institutes it was found that the teachers were happy and joyous in their work and were able to include some very pleasant and profitable reunions and exercises. It is my opinion that the plan of arranging the teachers' institutes is the best that has yet been devised. As a matter of permanent record, I give, in the following pages, the two bulletins touching upon this phase of institute work.

## BULLETIN NO. 17.

STATE OF MICHIGAN.

DEPARTMENT OF PUBLIC INSTRUCTION.

LANSING, January 10, 1906.

*To Commissioners and Institute Workers:*

I deem it wise to make a change in the character and conduct of teachers' institutes. While the institutes of the State have done great good, it is my opinion that institute work should be more systematic and that instruction should be given along special lines. Institute work from the very nature of the case must be intensive and not extensive. We cannot hope to cover the whole educational field. I submit herewith a plan which I desire to give a good trial in order to test its efficiency and prove whether it will produce better results than the one that has usually been followed. It is hoped and expected that each commissioner will do his best to carry into effect this new arrangement.

Very respectfully,

Patrick H. Kelley.

Superintendent of Public Instruction.

### INSTITUTES WITH STATE NORMAL SCHOOLS.

A summer school is conducted in each of the State normals during a period of six weeks. The county in which the State normal school is located, together with the several counties adjoining, will unite for an institute in connection with such summer school, the expenses of the institute to be borne jointly by the several counties, that is, each county will contribute its share toward special lecturers for institute purposes. The county commissioner of the county where the normal school is located will be the chief local conductor and the several other commissioners assistants. All the commissioners will be expected to attend the institute as much of the time as possible in order to look after their teachers and assist in keeping up the interest. The institute may be for a shorter period than the summer school if deemed advisable and will be free to all teachers. Arrangements for proper credits with the normal schools may be made with the principal of each school.

### INSTITUTES WITH COUNTY NORMAL TRAINING CLASSES.

In each county where there is a county normal training class established, except in counties included in the foregoing arrangement with the State normal schools, an institute or summer school of four weeks will be conducted by the faculty of the county training class, together with such other assistance as may be necessary. Where the funds are not sufficient for a four weeks session arrangements will be made for a two weeks session. This summer school will be held immediately preceding the August examination. The commissioner in each case will be local conductor and will be expected to attend all the sessions and assist in making the work a success. A special outline will be prepared for use in these summer schools.

### INSTITUTES IN OTHER COUNTIES.

In each county not provided for by the foregoing arrangements, an institute of five days or more may be held during the summer or just before the opening of the schools. In some counties it may be arranged to have an eight or thirteen day session just before the August examination, in others a five day session during the last week in August. Outlines will be prepared for use in these institutes so that the work may be systematic. The commissioners of all counties where summer institutes are to be held should correspond with the Department before May 1, in regard to dates, instructors, and local arrangements. In all cases, commissioners should correspond with the Department before taking any steps toward holding an institute so that instructors may be properly distributed and tangles avoided.

### INSPIRATION INSTITUTES.

In counties where summer institutes are held either in State normals or county training classes, three day inspiration institutes may be arranged during the school year if sufficient funds are available; also in counties where the long term institute is not feasible we shall be pleased to appoint three day institutes at such times as the commissioner may suggest. We prefer not to appoint any institute for a less period than three days. In some instances it is my judgment that it would be better to unite two counties for institute work, especially in counties where the amount of funds is small. Inspiration institutes will generally be held during the school year and I would prefer that they should be held before the first of April in order that the teachers may use their knowledge and inspiration during the remainder of the school year.

The "traveling" institute may be used as a substitute for the inspiration institute where the funds will warrant it and where the conditions in the county make it advisable. Special institutes may be arranged for the benefit of city teachers in counties where there are large cities and where the institute fund will warrant a division of the funds for such purposes.

### RECOMMENDATIONS.

(a) In counties that unite for an institute in connection with the summer school at the State normal schools and in counties where there is a summer county normal training class I recommend that the county board of examiners make a rule that no beginner will be granted a certificate who has not attended said summer school and that no certificate will be granted to an experienced teacher who does not attend, providing said teacher lives within the boundaries of such county.

(b) I recommend that hereafter no institutes be held from the first of April to the first of July but that all institutes be held either during the summer or during the first semester of the school year.

### COURSE OF STUDY.

The subjects to be treated in teachers' institutes will cover:

(a) Some or all of the common branches.
(b) Psychology and pedagogy.
(c) Primary methods.
(d) Methods in spelling, writing, and language.
(e) Manual training.

(f) Music.
(g) Drawing.
(h) Nature Study.

### CONDUCTORS AND INSTRUCTORS.

The following named persons have been selected by the State Superintendent as institute conductors and instructors and they will be expected to give all institute instruction in the State outside of the summer schools heretofore mentioned. These persons will make special preparation for institute work and will be expected to follow the instructions of the Department, holding themselves in readiness to take institute work at any time they may receive an appointment. Special arrangements may be made for instructors aside from those named below in the case of city institutes, or where any particular occasion makes it necessary to go outside the State.

## INSPIRATION INSTITUTES.

### CONDUCTORS.

H. R. Pattengill, Lansing.
C. T. Grawn, Mt. Pleasant.
F. L. Keeler, Mt. Pleasant.
C. O. Hoyt, Ypsilanti.
S. B. Laird, Ypsilanti.
N. A. Harvey, Ypsilanti.
J. H. Kaye, Marquette.
D. B. Waldo, Kalamazoo.
Ernest Burnham, Kalamazoo.
W. J. McKone, Albion.
Delos Fall, Albion.
C. E. Holmes, Lansing.
W. N. Ferris, Big Rapids.

### INSTRUCTORS.

A. Hamlin Smith, Lansing.
W. H. Sherzer, Ypsilanti.
J. C. Stone, Ypsilanti.
M. S. W. Jefferson, Ypsilanti.
Thomas J. Riley, Kalamazoo.
Mary Lowell, Kalamazoo.
L. H. Wood, Kalamazoo.
J. T. McManis, Kalamazoo.
J. B. Faught, Marquette.
L. F. Anderson, Marquette.
William Bellis, Mt. Pleasant.
R. D. Calkins, Mt. Pleasant.
Lucy A. Sloan, Mt. Pleasant.
C. S. Larzelere, Mt. Pleasant.
John Kelley, Mt. Pleasant.
D. H. Roberts, Ypsilanti.

### LECTURERS.

L. H. Jones, Ypsilanti.
Samuel Dickie, Albion.
E. G. Lancaster, Olivet.
A. G. Slocum, Kalamazoo.
J. W. Mauck, Hillsdale.
A. F. Bruske, Alma.
B. W. Anthony, Adrian.
Delos Fall, Albion.
F. A. Barbour, Ypsilanti.
R. C. Ford, Ypsilanti.
W. D. Henderson, Ann Arbor.
J. L. Snyder, Lansing.
H. S. Earle, Lansing.
G. J. Edgecumbe, Benton Harbor.
John M. Van Der Meulen, Holland.

## LONG TERM INSTITUTES.

### CONDUCTORS.

C. L. Bemis, Ionia.
I. B. Gilbert, Traverse City.
C. E. Holmes, Lansing.
J. H. Harris, Pontiac.
W. E. Conkling, Dowagiac.
C. G. Wade, Flint.
F. J. Tooze, Monroe.
J. K. Osgerby, Howell.
E. L. Parmenter, Iron Mountain.
J. W. Simmons, Owosso.
Orr Shurtz, Negaunee.
W. F. Lewis, Port Huron.
A. Hamlin Smith, Lansing.

### INSTRUCTORS.

A. N. Cody, Flint.
M. A. Cobb, Lansing.
G. A. McGee, Cadillac.
R. S. Garwood, Marshall.
L. E. Amidon, Iron Mountain.
E. P. Clarke, St. Joseph.
S. J. Gier, Hillsdale.
F. E. Knapp, Quincy.
H. C. Lott, Holt.
W. D. Sterling, Lansing.
Guy D. Smith, Ludington.
W. E. Hanson, Manistique.
F. D. Smith, Ontonagon.

## SPECIALISTS.

### MANUAL TRAINING.

Alice I. Boardman, Ypsilanti.
Wm. D. Miller, Mt. Pleasant.
Geo. L. Waite, Kalamazoo.
Alice P. Kimball, Cadillac.
Reina Torrey, Standish.
Nettie Brown, Grand Rapids.
J. H. Trybom, Detroit.
Sara L. Greeley, Pontiac.
Susan Bailey, Port Huron.
Lois Wilson, Lansing.
Florence Fox, Chicago.
Louise Kilbourne, Kalkaska.
Jessie M. Hines, Charlevoix.
Helen J. Torrey, Grand Rapids.

### PRIMARY.

Margaret Wise, Ypsilanti.
Fannie Allen, Mt. Pleasant.
Martha Sherwood, Kalamazoo.
(Mrs.) F. M. Kelsey, Marquette.
Francis Burt, Mt. Pleasant.
Minnie I. Termaat, Mt. Pleasant.
Harriet Marsh, Detroit.
Lois Wilson, Lansing.
Mae Bennett, West Branch.
Henrietta Barnes. Marquette.
Florence Fox, Chicago.
Lucy Bettes, Grand Rapids.
Abigail Lynch, Ypsilanti.

### DRAWING.

Bertha Goodison, Ypsilanti.
Frances H. Oakley, Mt. Pleasant.
Grace A. Spalding, Marquette.
Amelia Goldsworthy, Kalamazoo.
Carl H. Smith, Ann Arbor.
Ella P. Irish, Adrian.
Sibyl Robinson, Albion.
Lois Wilson, Lansing.
Edna Flarada, Ionia.

### NATURE STUDY.

W. H. Sherzer, Ypsilanti.
F. L. Keeler, Mt. Pleasant.
E. R. Downing, Marquette.
C. E. Holmes, Lansing.
Clinton D. Smith, Lansing.
M. A. Cobb, Lansing.
Jean Dawson, Ann Arbor.

### MUSIC.

(Miss) Clyde E. Foster, Ypsilanti.
H. C. Maybee, Mt. Pleasant.
Sophia Linton, Marquette.
Florence Marsh, Kalamazoo.
Jennie E. Thomas, Detroit.
Mary Lyon, Owosso.
Ada C. Smith, Ann Arbor.
(Mrs.) J. L. Wagner, Grand Ledge.

## COUNTY NORMAL TRAINING CLASS TEACHERS.

M. Ruey Agnew, Standish.
Jessie M. Himes, Charlevoix.
Gertrude Payne, St. Johns.
Marjorie Kinnan, Ithaca.
Sara L. Greeley, Pontiac.
Susan Bailey, Port Huron.
Alice P. Kimball, Cadillac.
Elizabeth Monk, Ionia.
Cora M. Willsey, Tawas City.
Carrie A. Simpson, Big Rapids.
Lulu B. Chase, Ludington.
Bella J. Walker, Owosso.
Jane E. Petrie, Manistee.
Goldie Whittaker, Gaylord.
Margaretha Rogers, Mancelona.
Miss Reed, Charlevoix.
Lulu McCreery, St. Johns.
Louise Kilbourne, Kalkaska.
Martha MacArthur, Evart.
Agatha Dunstall, Port Huron.
Harriet L. Peckham, Hastings.
Viola Marshall, Mason.
Ida M. Huston, Midland.
Minnie B. Replogle, New Baltimore.
Grace B. Norton, Hart.
Eva Warriner, Marshall.
Carrie L. Carter, Fremont.
R. D. Bailey, Gaylord.
Anna Hazard, Dowagiac.

## INSTITUTE FORM NO. 1.

STATE OF MICHIGAN,
DEPARTMENT OF PUBLIC INSTRUCTION.

LANSING, May 10, 1906.

*To Conductors and Instructors:*

I present herewith a few suggestions and a course of study for the work in the summer institutes. I desire that the work shall be thoroughly done and that the teachers shall receive an inspiration from it that will make their ensuing year of greater interest, and of greater benefit to themselves and to their pupils. We shall depend upon you to clothe the academic subjects with new life and inspiration. In this way we hope to increase the efficiency of the public schools.

Very respectfully,

Patrick H Kelley.

Superintendent of Public Instruction.

# SUMMER INSTITUTES.

The institutes for the coming summer will be along a line, the plan of which has been varied to meet the growing demands of the teachers throughout the State.

First. In each of the State normal schools arrangements have been made for a summer term, the counties adjacent to such schools joining in the work. This summer term will take the place of the ordinary county institute in such counties.

Second. In many of the counties having county normal training classes plans have been made for a summer term of from two to four weeks. The work of this summer term will be along the lines of an ordinary summer institute and will also have academic work for such as need to prepare for teachers' examinations. This summer term will be substituted for the summer institute in each of these counties.

Third. A few of the remaining counties in the State will have the regular summer institute of from five to fifteen days duration.

A strong effort will be made to make all this institute work of the same general character.

In consequence of the above there will be no outline of specific work sent out for institute instructors, but instead a general outline is herewith sent for all the regular summer institutes. Each instructor is expected to arrange his work to conform with this outline in so far as he can, according to the length of term of the institute in which he works.

In general, the following purposes are to be kept in mind and the work prepared with reference to the same:

First. The work must be professional. Such professional work should include:

(a) Theory, with discussions and lectures upon the same.

(b) Practice, including explanations of applying the theories.

In the short term institutes, that is, in the institutes of five days or less, the work should be entirely professional and should include discussions as above stated with good practical illustrations of management.

Second. The work should be academic.

(a) Common branches, discussions of the more difficult topics.

(b) Practical work, including recitations upon assigned lessons.

In the long term institutes the work should be academic to the degree that practice in teaching should include lessons in academic branches and recitations upon the same.

The institute from beginning to end is and should be managed as a business proposition. Every teacher should feel that from the time the institute opens in the morning until it closes at night it is incumbent upon him to be busy.

The organization of an institute, like that of a school, means:

(a) A good program.

(b) Proper assignment of work.

(c) Opportunity for each teacher to do such work as is required by the instructor.

(d) Careful record of the attendance and work of each teacher.

(e) Some method of testing teachers as to how much of the work given has been assimilated.

## THE INSTRUCTORS.

As has been said in previous discussions of the institute work as viewed by this Department, every instructor should first know the plan of the Department and the work which is to be done. He should then prepare such work carefully and with direct relation to the needs of the country teachers. In order that such needs may be clearly understood instructors should spend some time in country schools, and if possible some time in the schools of the county in which they are to do institute work. This is the only means which can be employed to avoid loss of time in "firing at random."

He should also familiarize himself thoroughly with the new State Course of Study, which will be in the hands of every member of the institute. The mastery of this Course of Study is the most important work that the teacher can possibly do. It is more important for the average country teacher to get a clear view and a full grasp of the Course of Study in its entirety than to master any other one thing which may be discussed in the institute. The new Course of Study has made several rather radical departures from some of the established ideas of the ordinary course of study. Whether the instructors of an institute indorse these departures or not does not enter into the problem. This is the Course of Study which will be used in the schools, and it is incumbent upon every instructor to see to it that so much of the work in this course as he shall present shall be presented honestly as it is outlined therein and discussed fairly and made applicable to school work as it will come to the teacher in the ordinary district school.

## SOME THINGS TO BE EMPHASIZED.

Inasmuch as many of the members of the institutes are persons without experience in teaching, or are teachers who have had little training beyond the first or second years of the high school, special emphasis should be laid upon some of the modern ideas of school work. Among such I would mention the following: School government with reference to punishments; school management with special reference to programs and waste of time; assignment of lessons; points to make in a recitation; tests; examinations; promotions; individual assistance to pupils; the teacher's preparation; the teacher's recreations.

## THE COURSE.

### ONE WEEK'S INSTITUTE.

1. Pedagogy.
2. School management.
3. Reading, primary.
4. Arithmetic, numbers.
5. English, language.
6. Geography, primary.
7. Spelling.
8. Manual training, suggestions, and exercises.
9. Music, rote singing.
10. Nature study. Course of Study.

### TWO WEEKS' INSTITUTE.

1. Pedagogy.
2. School management. Study of "Jean Mitchell's School" or "Evolution of Dodd."
3. Reading, primary and advanced.
4. Arithmetic,—numbers, fractions, percentage, and occupations.
5. English,—language and grammar.
6. Geography,—primary, physical, and commercial.
7. Manual training,—"Suggestions and exercises."
8. Music,—rote singing and note reading.
9. Nature study, according to State Course of Study.
10. Elementary agriculture.

## SYLLABUS OF WORK.

**Reading, primary.**—This includes full discussions of methods and whenever possible there should be class exercises with small children. There is probably no work done in any institute or in any school more important than that of primary reading. It would be a most excellent practical illustration of how to teach beginners the first steps in reading if it were possible to have in the institute every day a small class of children who had never been taught reading. If teachers could but see what can be done in not more than even ten exercises of fifteen or twenty minutes each it would give them a measuring rod for their own work. Many teachers of experience and all teachers without experience do not really know with reference to beginners how much progress to expect. I trust that this part of the institute work will be thoroughly done. For specific suggestions see the State Course of Study. This should be thoroughly discussed by the instructor with the Course of Study in the hands of every member of the institute.

**Reading, intermediate and advanced.**—This should include:

(a) A discussion of the difference between the methods necessary in primary reading and the methods necessary in intermediate and advanced classes. It should also include methods of study of the meaning of what is read. I suggest for such work some of the poems given in the new Course of Study.

(b) Advanced reading. Should include careful study of some classic. I recommend "Intimations of Immortality" by Wordsworth or "The Gray Champion" by Hawthorne. This work should be thorough and the teachers should be called upon for real and careful study, not so much that they may master the scope of the above named poems as that they may get into the spirit of the study of the classic.

**English.**—In the shorter institutes half of the time in English should be given to methods of teaching language in lower grades and half to methods of teaching construction and composition. Half of the time in the longer institutes should be given to the study of grammar, lessons being assigned for study and regular recitation. Special attention should be called to the preparation of manuscript, rhetorical figures, and the expression of ideas in good clear English.

**Arithmetic.**—In the method work in primary arithmetic special attention should be called to correlating numbers with reading, language, and nature work. Impress upon the teachers the idea that all arithmetic is based upon counting and that counting should be taught incidentally. Here again I call attention to the new State Course of Study, and to the fact that in this new Course of Study formal number work has been lifted from the elementary grades to a more advanced part of the course. Too much emphasis cannot be laid upon the following when the proper time for teaching the same occurs:

(a) Combinations of digits, first by addition, second by multiplication.

(b) Tables of measure and capacity, with the applications of such tables by measures placed in the hands of the pupils.

The academic work in arithmetic should be confined entirely to fractions, percentage, and measurements as applied to occupations, these being the subjects upon which teachers will be examined in the August and October examinations. Special attention should be given to mental processes by analysis. No better work can be done for the young teacher than to show that the subjects of fractions and percentage are simply various applications of the principles of multiplication and division. The average young person has been drilled upon the formal processes without having discovered this fact.

**Geography.**—In the method work of geography confine the discussions to primary geography as suggested in the State Course of Study. In the academic work attention should be called to the "why" of geographical conditions.

1. Physical geography, especially of United States and Michigan. Why?

2. Commercial geography. Why cities exist where they do, e. g, taking Chicago as a type.
    - (a) Ft. Dearborn,—why so located, the Indians, etc.
    - (b) The settlement surrounding Ft. Dearborn. Why?
    - (c) The growth of that settlement. Why?
        - (1) The lake leading to the east.
        - (2) The railroad leading to the west.
        - (3) Result,—Chicago, the meeting point of east and west.
        - (4) Wonderful growth. Why?

**United States history.**—Discussions:

1. Why historical events have occurred?
2. The effect of geographical conditions upon historical events.
    - (a) In discovery.
    - (b) In settlement.
    - (c) In war.
3. Study the constitutional period.

For further suggestions see State Course of Study.

**Civics.**—This subject should be parallel with and part of the subject of history. Teachers should be shown how they can make these three topics, geography, history, civics, really a unit, thus saving time in class work as well as giving their pupils a more comprehensive view of each.

**Penmanship.**—For some years the subject of penmanship has not been urged upon institute workers. Now, however, as the question of vertical writing seems to have spent its force, I think this subject should receive special attention both with reference to methods of teaching and daily drill work in writing. Paper, pens, and ink should be provided by the commissioner, and practical illustrations of methods of conducting classes given daily.

**Music.**—Whenever so desired music will be a part of each daily program. Exercises should be given upon the staff, note reading, teaching songs by rote, and the use of the voice, both with reference to breathing and quality of tone. The songs for rote singing should be carefully selected and a sufficient number of copies of the same made with the mimeograph so that each teacher can take home the music and words of every song taught. About five songs should be taught each week.

**Nature Study.**—

1. Discussions upon the methods of teaching pupils to observe those phenomena of nature which surround them. I suggest the following divisions of the same:
    - (a) The landscape as a whole.
    - (b) The landscape in its details,—the river, the lake, the forest, the valley, the hill.
    - (c) Changes in the landscape made by nature.
    - (d) Changes in the landscape made by man.
2. Discussions of the outlines of nature study given in the State Course of Study.

**Manual Training.**—The exercises in manual training should include exercises in drawing. Instructors will be careful to present each lesson as a model lesson in teaching as well as in the practice. If instructors are unable to take all the exercises given below, give careful attention to the matter of paper folding and paper cutting. The instructor should do all the work in full view of the teachers, holding the work so that they may see the hand manipulation. It may be well to use a sloping board placed upon a table behind which the instructor stands and reaches over to do the folding. The color work, if undertaken, may be done with the work in drawing. I would suggest three days each week for the manual training and two days for drawing. This work should be presented to the entire institute, including the beginners and advanced students.

### *The Course.*

While it is desirable that work in manual training with paper should include paper folding and cutting, cardboard work, whittling, sewing, clay modeling, and shop work, it is impossible in the institute to do anything but the most elementary work. It is suggested that the following exercises be used, and after this such additional work as the instructor wishes.

### *Folding.*

Tablecloth, house, windmill, sailboat, cup and saucer, boy's hat, general's hat, fan, shawl, etc.

### *Cutting.*

Working drawings should be made of the following before the paper is cut for the same: Envelope, wall pocket, pin wheel, picture frame, cubical box, box with cover, triangular box, hexagonal box, octagonal box, cone, lamp shade, curved edge box.

### *Color Work and Designing.*

A few exercises might be given in designing with colored paper. In this work, owing to lack of time, little original work can be done by the teachers. They should be encouraged, however, to do original work and to have their own pupils originate some designs both in color and in plain paper.

### *Weaving.*

In weaving teach the following:

For baskets,—

1. Terms:—*spokes, weaver or filler, under and over-weaving, pairing, triple twist.*
2. How to place the "spokes" to start a basket.

For mats,—material.

3. How to make a simple hand loom for weaving mats.
4. How to prepare raffia, rushes, corn husks, twine, for use in making mats and baskets.
5. How to start a basket or mat.

### *String Work.*

Weaving nets, hammocks, and bags.

**Elementary Agriculture.**—

1. The home.
   - (a) Common needs about a home.
     - (1) Front yard,—its fence, walks, roads, trees, etc.
     - (2) House furnishing,—curtains, carpets, pictures, organ, piano, sewing machine.
     - (3) Social life,—neighbors, school, church, picnics, parties, other social gatherings.
   - (b) The farm:
     - (1) The soil, fields, barn, orchard, water supply.
     - (2) Repairs,—fences, barn, house, tools.
   - (c) Crops:
     - (1) Wheat, corn, potatoes, hay, fruit.
     - (2) The yield, the price, income.
     - (3) Stock,—cows, hogs, sheep, horses, poultry.
   - (d) Plant study:
     - (1) The soil,—What the soil gives to the plant.
     - (2) The air,—what the air gives to the plant.
   - (e) Enemies to the plant.

## STATE HIGH SCHOOL COURSE OF STUDY.

In the report for the year 1905 attention was called to the publication of the uniform Course of Study for High Schools prepared by a special commission of the State Teachers' Association and approved and recommended to the superintendents and boards of education by the Superintendent of Public Instruction. This report also included the schedule of this course of study. Ten thousand copies were printed and a part of them were immediately shipped to the several superintendents and principals of the city and graded schools. It has been attempted to supply all persons engaged in high school work with a copy of this course. The commission made some radical recommendations in regard to high school work and it is not to be supposed that all the high schools of the State would immediately change their course of study to meet the new recommendations, but I believe that superintendents generally have appreciated the spirit of the Department in making its recommendation and the courses of the high school are being adjusted as rapidly as possible to the new plan and recommendations.

**Basis for high school course.**

Reports to this Department from superintendents show that in a number of cities the report has already been incorporated as the basis of the high school course and the plan seems to be working well. From a still larger number of villages and cities reports show that the new course is being introduced into the high schools as rapidly as circumstances will permit. Thus far the Department has received no severe criticism upon this course of study. No one would claim that it is absolutely perfect but it is a long step towards the unification of our high school requirements and the introduction of such lines of work into them as will best meet the needs of our young people for the present and for the future.

The schedule of subjects is arranged so that students may pursue those which will fit them either for entrance to the University or college, or for commercial work, or for certain special lines. It is not feasible to make the public schools what might be termed trade schools but the elements of domestic art, domestic science, wood work, and iron work are introduced. Many of our city schools have a very thorough commercial course and I believe that the new courses of study are leading in the right direction.

New features.

Very pleasing reports have come to the Department in regard to the use of this course of study. I again urge upon our superintendents and high school teachers that they shall begin to use this course as soon as possible and, if it is found impracticable in any of its parts, such information should be reported at the earliest possible moment in order that corrections may be made.

Use of the course.

The high school does not exist simply as a training school for the college and university. It has always been a fact, and probably will continue to be, that almost ninety per cent of our young people will receive their advanced educational training in the high school. This means that only a small percentage will attend the colleges and universities. It is therefore highly necessary that boards of education, in adopting courses of study for high schools, shall keep clearly in mind the needs of the ninety per cent who cannot go farther. Opportunity should be given for a course leading to the university but the main thing to be kept in mind and prepared for is what may be termed the English-Business course which will be pursued by the majority of our young men and women. Every board of education having under its control a graded school, and this includes all village and city schools, should see to it that the schools are conducted on strictly business principles, with the best and most improved methods that can be secured.

## SCHOOL SAVINGS BANKS.

School savings banks, which have been established for the purpose of giving children in public schools an opportunity to cultivate habits of thrift and economy and to come in contact with business men and business methods, have been in operation in Michigan only a few years. The several city and village superintendents of the State were requested to report to the Department on this subject, and I am pleased to say that the reports show that school savings banks have been established in the following cities: Albion, Adrian, Grand Haven, Grand Rapids, Monroe, Marine City, Owosso, St. Louis, and Ypsilanti. It is possible that others have been established but the reports have not been sent in. The blank form sent out to the several superintendents for the report contained the following list of questions:

(1) Have you established school savings banks?
(2) When?
(3) How many children are depositors?
(4) Total amount of deposits since established?
(5) Average amount per year per child?
(6) How do the children secure the money?
(7) Attitude of the teachers to the plan?
(8) Attitude of the board of education?
(9) Attitude of the people?
(10) What permanent and beneficial results are secured?

### ALBION.

School savings bank was established in February, 1901. Four hundred and forty children have been depositors and they have to their credit at the present time $9,500. The children secure the money in various ways. Some of it, of course, is given to them, others earn money by running errands, selling papers, and acting as messengers. The attitude of teachers, boards of education, and people has always been friendly and sympathetic. Among permanent results secured are business, thrift and saving habits, and self-denial. Many of the children instead of spending their money for gum, candy, and a variety of harmful things save it and deposit it in the bank. We believe it to be a good business proposition, and that it will assist the school in producing better citizens.

W. J. McKone,
Superintendent.

### ADRIAN.

Savings bank was established September 12, 1900. At the last annual accounting with the bank there were 625 depositors. The total amount deposited since the plan was established is $11,861.29. Upon this account has been drawn $7,357.57, leaving a balance of $4,503.72. The average amount per year per child was $7.20. The children bring the money from home every Monday morning and place it in the hands of the teacher at school, each child having his own bank book. The teacher assists the child in arranging matter for placing the money in the bank. The money is earned in various ways, by running errands, saving, and selling papers, etc. The plan is extremely popular with all our people. We observe that some of the beneficial results are that it encourages thrift and saving and secures a safe depository for a considerable sum that otherwise would be largely expended for confectionery and slot machines.

Charles W. Mickens,
Superintendent.

### GRAND HAVEN.

Savings bank was established November 17, 1903. Five hundred children have been depositors. The total amount deposited since established $2,538.31, and the average amount per child per year has been about $1.70. The children secure the money by doing odd jobs, selling papers, gifts from persons, picking berries, etc.

The attitude of teachers, board of education, and people is extremely favorable. 'We have noticed that the establishment of the savings bank cultivates habits of thrift, frugality, self control, ability to save for certain purposes, familiarity with business men and business methods.

E. P. CUMMINGS,
Superintendent.

### GRAND RAPIDS.

School savings bank was established in this city September, 1904. Since that time about 4,000 have been depositors and the amount deposited is $38,000. The money is secured by running errands, selling papers, denial of child of candy, slot machines, etc.

The attitude of all our people is extremely favorable to the propositition. The following is quoted from the annual report of the superintendent of schools for the past year:

"The school savings bank has become a permanent feature of our school system. Beginning a number of years ago with a very small nucleus, considered for some time as an experiment, it has developed into a factor in our school plan which deals with considerable aggregates in the banking business, having in mind the prevention of the useless expenditure of the small amounts by the children, and the teaching of thrifty habits, together with the acquirement of knowledge concerning the transaction of business at the bank. The school banking system has grown from small contributions made by four schools into a plan which covers all of the schools in the city. During the last year the collections in the schools aggregated $8,730.92. There is standing in the bank to the credit of the school children about $35,000.

"There is a great variation in the amounts collected in the different schools, not seeming to depend upon the character of the school patrons so much as the active interest taken in the work by the teachers in the school. The largest amount collected in any one school for the year was $586.21, which stands to the credit of the Madison avenue school. Next to this stands the Henry street school with an aggregate of $519.06. The value of the system cannot be measured by any one set of figures. The aim is not to secure a large and continuously growing savings account for the different pupils, but rather to secure the regular saving of small amounts, having in mind some purpose for the expenditure of the money.

The test of results comes as largely with the purpose in mind which induces the saving and the success in carrying out that purpose as with the fact that a considerable amount of money has been placed to the credit of the pupil in the bank. It is somewhat difficult to gather statistical matter illustrating the truth of this statement because children and families do not talk about matters of this kind, but a number of incidents have been reported, showing a use of the money gathered in the bank as a result of these small savings, which illustrates a spirit of self-sacrifice and good citizenship which appeals very strongly to those who formulate a career on the methods of our schools. Many of our school children have to do quite early with the economies which must attend the expenditure of family funds, and the tuition which comes with the school banking system becomes invaluable to these little people in forming business habits and acquiring ways of carrying on the details in a successful business career. Many children who have learned to keep accounts with the bank understand better than their parents how to quickly transact business in the bank without errors and in a manner that commends their ways to the bank officials. It is not uncommon to find children under ten years of age who have learned to make deposits, draw money upon check, and understand the value of a signature at the bank.

Through the working of the school savings bank system, a foundation for accurate business habits has been established that could hardly have been secured by any other method. It has passed the experimental stage and its success is assured. All that is required to increase its value is to awaken and maintain an interest in its processes by the entire corps of instructors."

W. A. Greeson,
Superintendent.

### MONROE.

School savings bank was established October 22, 1906. Two hundred and fifty-six children have been depositors this year, and up to date $159.81 is the credit at the bank. The children work for the money, save it from allowances, gifts from parents and friends, and some children from very poor homes have quite creditable accounts for the pennies they have saved.

The attitude of our people and the board of education is very favorable to the proposition. We have observed already that the children are learning how to do business at the bank and how to save systematically. We note that it is increasing the respect of the children for the school which is by no means an unimportant matter.

F. J. Tooze,
Superintendent of Schools.

### MARINE CITY.

The plan of a school savings bank was adopted October 30, 1905. From that date up to June 18, 1906, when the last accounting was made with the bank, the average number of depositors per week was ninety-five and the amount deposited at that date was $375.03. The average amount per child has been $3.81. The children secure the money in various ways, by earning it, from gifts, by denying themselves of candy, gum, peanuts, and slot machines.

Our people generally are heartily in favor of the plan. A few have looked upon it skeptically. I know that good results are being secured in cultivating habits of thrift and economy.

W. D. Riggs,
Superintendent.

### OWOSSO.

The school savings bank was established in Owosso March 18, 1901. Since that time 1,400 children have been depositors and 600 are now regular depositors in this fund. The total amount of deposits since the plan was established is $10,564. The balance which appears to be in the bank now is $4,500. The average amount per year per child is $3.50.

The children secure the money by working, gifts, denying themselves of candy, etc.

The attitude of all our people and teachers to this plan is most excellent. We observe that the children learn to save and to know the accumulative value of savings. As the children make their deposits in the bank, they are learning business methods and gaining ideas of manhood by coming in contact with bright business men.

J. W. SIMMONS,  
Superintendent.

### ST. LOUIS.

The school savings bank was established in St. Louis at the beginning of the school year of 1904 and 1905. One hundred and twenty children have been regular depositors. The total amount of money deposited since that time is $1,480.

Children have learned to deposit the money formerly expended for gum, candy, and have ceased to patronize the slot machines. Many of the children secure money for their bank account by working at various jobs. All of our people are unusually interested in the plan, and we observe that the children are cultivating habits of thrift and business.

A. D. DEWITT,  
Superintendent.

### YPSILANTI.

The school savings bank was established in this city January 1, 1905. Four hundred children have been regular depositors and have deposited $2,645.25.

The children secure their money from gifts from parents and friends and by earning it in a variety of ways.

The attitude of our people and board of education are extremely favorable, and the people are becoming interested in the plan. We observe that the children are inculcating habits of thrift and saving for some definite purpose, and we see that these lessons are being carried into the home and that the parents are taught objectively to save systematically.

W. B. ARBAUGH,  
Superintendent.

## KINDERGARTEN, MUSIC, AND DRAWING CERTIFICATES.

Act 119 of 1891 authorizes the introduction of kindergarten methods into the public schools of Michigan. This act provides that any district board may employ competent persons to give instruction in kindergarten methods and that all children in the district between the ages of four and seven should be entitled to free instruction in this subject. Under this law, kindergarten departments have been established in a large number of schools in the State but the Legislature has never provided any particular standard of competency in the teachers.

The Legislature of 1901 provided that any person who is a graduate of a kindergarten training school, whose course of study was approved by the Superintendent of Public Instruction, and who held a teacher's certificate, or a diploma from a reputable college, normal school, or high school, should be qualified to teach kindergarten methods. The same statute also provided that a person who had received two years' instruction in music, or one year's instruction in drawing, in the University of Michigan or in any normal school of the State, or in any incorporated college, should be considered qualified to teach these subjects. This act was amended by Act 24 of 1905, providing that when persons had secured the qualifications specified in the act, and the schools in which such instruction had been received were approved by the Superintendent of Public Instruction, said Superintendent might grant a kindergarten certificate or a music or drawing certificate, which would qualify the holder thereof to handle these subjects in any of the public schools of the State. The law also provides that if a person receives two years' instruction in music under a private instructor and passes an examination before a musical director of a State normal school in Michigan, the music teacher's certificate may be granted the same as if he had finished the course in any of the foregoing named institutions.

**Approved schools.**

Since the law was passed the State Superintendent has granted 306 kindergarten certificates, 110 music certificates, and seventy-one drawing certificates.

It should be noted that the school laws of the State require boards of education to employ legally qualified teachers only, that is, persons who hold teachers' certificates granted by proper authority. This covers all teachers, whether they give instruction in the ordinary academic subjects or in special branches. No board of education has authority to hire a teacher of music, drawing, kindergarten, domestic science, manual training, or any other special subject, unless such person holds a teacher's license. Any school district or city employing unqualified teachers renders itself liable to forfeit all or a part of its share of the primary school interest fund and such forfeitures have frequently been imposed.

**Legally qualified teachers.**

As this particular law gives authority to the State Superintendent to approve certain educational institutions, it may be well, as a matter of information to our teachers, to specify the institutions already approved. The list is as follows:

Grand Rapids Kindergarten Association.
Northern Indiana Normal School, Valparaiso, Ind.
Milwaukee Mission Kindergarten.
Chicago Free Kindergarten.
Detroit Kindergarten Normal School.
Keble Kindergarten School, Syracuse, N. Y.
Ruth Avery Kindergarten Training School.
Chicago Kindergarten College.
Chicago Froebel Kindergarten.
Alma College.
Ferris Institute.
Central Michigan Normal School, Mt. Pleasant.
Indianapolis Kindergarten Training School.

Milwaukee State Normal School.
Superior (Wis.) Normal School.
Phoebe A. Hearst Kindergarten, Washington, D. C.
Thomas Normal Training School, Detroit.
Minneapolis Kindergarten Association.
Cleveland Kindergarten Training School.
Oberlin College Kindergarten Training School.
Oswego (N. Y.) Normal School.
State Normal School, Los Angeles, Cal.
Benton Harbor College.
Michigan State Normal College, Ypsilanti.
Lucy Webb Hayes National Training School, Washington, D. C.
Western State Normal School, Kalamazoo.
Northern State Normal School, Marquette.

### MUSIC.

Chicago Auditorium Conservatory of Music.
Thomas Normal Training School, Detroit.
New England Conservatory of Music, Boston.
New School of Methods, Chicago.
Michigan State Normal College, Ypsilanti.
Alma College.
Central Michigan Normal School, Mt. Pleasant.
Olivet College.
Albion College.
University of Michigan Conservatory.
Lawrence University, Appleton, Wis.
Cottey College, Nevada, Mo.
Western State Normal School, Kalamazoo.
Crane Normal Institute of Music, Potsdam, N. Y.
Chicago Musical College.
Detroit Conservatory of Music.
Northern State Normal School, Marquette.

### DRAWING.

Pratt Institute, Brooklyn.
Thomas Normal Training School, Detroit.
Massachusetts Normal Art School.
Michigan State Normal College, Ypsilanti.
Olivet College.
Central Michigan Normal School, Mt. Pleasant.
Art Institute of Chicago.
Western State Normal School, Kalamazoo.
Northern State Normal School, Marquette.

# NORMAL SCHOOL SYSTEM.

While a detailed statement of the normal school system of Michigan is published biennially in the report of the State Board of Education to the Michigan Legislature, yet for the benefit of those who will not see that report, a part of the general information contained therein is given here.

Normal schools of Michigan.

The normal school system at present consists of four institutions, the Michigan State Normal College at Ypsilanti, the Central Michigan Normal School at Mt. Pleasant, the Northern State Normal School at Marquette, and the Western State Normal School at Kalamazoo.

Organization and government.

The official head of each of these institutions is as follows: President L. H. Jones of the State Normal College, Principal C. T. Grawn of the Central Normal, Principal James H. Kaye of the Northern Normal, and Principal D. B. Waldo of the Western Normal, who constitute the normal executive council. These gentlemen act in harmony in all matters pertaining to their individual schools, thus producing uniformity in courses of study, work of the students, and in the general educational spirit. Each member of the council studies his own institution and then at the general meetings they advise together and report their recommendations to the State Board of Education.

Development.

The development of our normal school system has been unusual in recent years, which indicates the rapid growth of public sentiment in favor of expert teaching. The policy of the State Board of Education in making the entire year available for attendance at these normals has materially increased the attendance at and the effectiveness of the institutions. The number receiving instruction in each of the institutions for the year ending September 1, 1906, is as follows:

| | |
|---|---|
| Michigan State Normal College: | |
| Attendance for academic year | 1,247 |
| Summer session of 1906 | 1,425 |
| Central Michigan Normal School: | |
| Attendance for academic year | 436 |
| Summer session of 1906 | 625 |
| Northern State Normal School: | |
| Attendance for academic year | 169 |
| Summer session of 1906 | 296 |
| Western State Normal School: | |
| Attendance for academic year | 173 |
| Summer session of 1906 | 557 |

The foregoing figures show that 2,025 students were in regular attendance at our normal schools during the academic year 1905-6 and that, during the summer session of 1906, there were 2,903 enrolled. At the opening of the academic year 1906-7 the enrollment shows a considerable increase over any preceding year. About 2,500 students enrolled during the first week.

Trained teachers.

For the academic year 1906, 1,200 students were graduated from all the State normal schools. This means the direct addition of 1,200 trained persons to the teaching force of the State. To this should be added the number graduated from the University who received special licenses to teach and those graduating from the denominational colleges who received college certificates. The State Board of Education has granted upon examination five life certificates to teach during the year, has indorsed normal school diplomas issued in other States to the number of fifteen and has granted eighty-seven college certificates. Of course this is not many when compared with the whole number of teachers required in the State and it is true that this year the normal schools have not been able to supply the demand for trained teachers.

Instructors.

As stated before, the growth of our normal schools has been very rapid. The State Normal College employs seventy-eight trained instructors, the Central Normal School thirty-eight instructors, the Northern Normal School, twenty-three, the Western Normal School, twenty, and from present indications the teaching force of these institutions must be considerably increased in the very near future. Our people need have no fear that the growth of the normal schools will give an over-production of teachers for the public schools. The supply of trained teachers has never yet equalled the demand, even in the graded schools, to say nothing of the rural schools.

Course of study.

In a former report the uniform course of study and regulations governing the normal schools was given, but as one important change has been made in the regulations governing graduation, it seems wise to give herewith in full the general course of study and conditions of graduation so that our people may know just what work the normal schools are doing.

### I.

Resolved by the State Board of Education, That substantial uniformity and reciprocity in the courses of study of the State Normal College and the State Normal Schools now existing and which may hereafter be established in the State, shall be maintained so that the transfer of students from one school to another shall not lead to loss of standing for similar courses; and that the said Board of Education shall, upon the completion by any student of any specified course of study in any of the above named institutions, and upon the recommendation of the president or principal and a majority of the heads of departments thereof, grant to such student a certificate containing a list of studies included in said course, and said course shall be uniform in all the above named institutions, which certificate shall be signed by the said Board and president, or principal and shall entitle the holder to teach in any of the schools of the State for which said course has been provided, as follows:

First, Upon the completion by any student of a course of study containing such academic and professional branches of instruction as the State Board of Education may deem necessary for successful teaching in the rural schools of the State, said Board shall, upon recommendation as aforesaid, issue a certificate known as the rural school certificate, valid for three years, authorizing the holder to teach in any district of this State employing not to exceed two teachers: Provided, That the said rural school certificate may be once renewed for a like period upon satisfactory evidence to the granting power of successful experience in teaching;

Second, Upon the completion of one year of forty-two weeks of professional study beyond graduation from the high school department of a twelve years' public school system, said professional course containing such subjects as the State Board of Education shall prescribe, said Board shall, upon recommendation as aforesaid, grant a certificate known as the graded school certificate, valid throughout the State for three years in grades below the tenth year of school. This certificate is renewable once only for a period of three years upon satisfactory evidence to the granting power of successful experience in teaching;

Third, Upon the completion of a two years' course of study beyond graduation from the high school department of a twelve years' public school system, said professional course containing such subjects as the State Board of Education shall prescribe, said Board shall, upon recommendation as aforesaid, grant a diploma and certificate valid for life in any of the public schools of the State.

## II.

In addition to the foregoing courses, which are provided for all the Normal Schools of the State, the State Board of Education hereby provides for advanced courses of study in the Michigan State Normal College, and upon the completion of any of said advanced courses by any student, said Board shall grant diplomas, certificates and degrees as follows:

First, Upon the completion by any student of an advanced professional course of study in the State Normal College of one year beyond the life certificate course, said course to include such branches of study and training as the State Board of Education shall prescribe, the said Board of Education shall, upon the recommendation of the president and a majority of the heads of departments, issue to such student a diploma and a life certificate valid in all the public schools of the State, and confer upon him the degree of bachelor of pedagogics. In the application of this ruling, persons holding the A. B. degree from reputable colleges shall be deemed equal to those holding life certificates from the State Normal College, or any of the State Normal Schools;

Second, Upon the completion by any student of a one year professional course beyond that required for the degree of bachelor of pedagogics, as outlined above, said course containing such branches of study as the State Board of Education shall prescribe, the said State Board of Education shall, on recommendation of the president and a majority of the heads of departments, issue to such student a diploma and confer upon him the degree of bachelor of arts.

## III.

Resolved by the State Board of Education, That the uniform rural school course of study used in the various normal schools of Michigan shall consist of the following studies, as herein specified:

| | | |
|---|---|---|
| English Grammar, Composition and Literature for the Grades.. | 36 | weeks |
| History of the United States (with methods)................ | 24 | " |
| Reading and Orthoepy (with methods of teaching primary reading) ................................................ | 24 | " |
| Geography (with methods) ................................ | 24 | " |
| Arithmetic (with methods) ................................ | 24 | " |
| Elementary Algebra ........................................ | 24 | " |
| General History ........................................... | 24 | " |
| Elementary Physics ........................................ | 24 | " |
| Observation and Teaching in Training School................ | 24 | " |
| Botany .................................................... | 12 | " |
| Elementary Agriculture .................................... | 12 | " |
| Civil Government .......................................... | 12 | " |
| School Management ......................................... | 12 | " |
| Psychology ................................................ | 12 | " |
| Physiology ................................................ | 12 | " |
| Music ..................................................... | 12 | " |
| Drawing ................................................... | 12 | " |
| Penmanship ................................................ | 12 | " |
| Physical Training (without credit) ........................ | 36 | " |

NOTES. 1. Teachers of experience in rural school work may receive credit on the above course in accordance with such experience.

2. Pupils who have taken any of the above subjects in high schools may receive credit for the subjects so taken.

3. The course (without credits) will require two years and one term (seven terms of twelve weeks each); or two years and two summer terms (summer terms six weeks each). The greatest amount of credit possible will reduce it to one year,—that is, three terms of twelve weeks each.

4. Persons completing the course will receive a certificate valid for three years anywhere in the State in schools employing not more than two teachers. This certificate is renewable once for three years.

5. The normal schools desire to help those who need to prepare for second and third grade certificates. Classes in the necessary subjects are in progress every quarter.

6. Students wishing manual training will be allowed to take it in place of some one of the prescribed subjects, under direction of the president or principal of the school.

## IV.

Resolved by the State Board of Education, That the uniform course of study required in the Normal Schools of Michigan for a Graded School Certificate shall consist of the following subjects, as herein specified:

| | | |
|---|---|---|
| Psychology | 24 | weeks |
| General Method | 12 | " |
| Teachers' Courses—required | 48 | " |
| Teachers' Courses—elective | 36 | " |
| Two Electives | 24 | " |
| Observation and Teaching | 24 | " |
| Physical Training (without credit) | 36 | " |

Under some circumstances another elective may be taken in place of twelve weeks of teaching.

## V.

Resolved by the State Board of Education, That the uniform course for Life Certificates arranged for the normal schools of Michigan shall consist of the following subjects, as herein specified:

| | | |
|---|---|---|
| Phychology | 24 | weeks |
| General Method | 12 | " |
| History of Education | 12 | " |
| Teachers' Courses | 96 | " |
| Observation and Teaching | 24 | " |
| Electives | 120 | " |
| Physical Training (without credit) | 48 | " |

NOTES. 1. Holders of limited State certificates will not be allowed credit for the two extra electives taken in the one year professional course, but must complete thirty-six weeks of work to secure the life certificate.

2. Specializing students take but six teachers' courses.

## VI.

Resolved by the State Board of Education, That the three year course of study provided for the Michigan State Normal College, as requisite for the degree bachelor of pedagogics, consist of the following subjects, as herein specified:

| | | |
|---|---|---|
| Psychology | 24 | weeks |
| General Method | 12 | " |
| History of Education | 12 | " |
| Teachers' Courses | 96 | " |
| Observation and Teaching | 24 | " |
| Electives | 264 | " |
| Physical Training (without credit) | 48 | " |

Resolved by the State Board of Education, That the four years' course of study leading to the degree of bachelor of arts in the Michigan State Normal College shall consist of all the courses heretofore specified for the degree of bachelor of pedagogics, and 144 weeks of electives from college subjects, selected by the heads of departments from their various courses as laid down in the year book of the college.

## COLLEGES.

The Constitution of Michigan authorizes the establishment of educational institutions other than State institutions and provides for their general control by the State. The statute pursuant to the Constitution has specified the rules and regulations under which they may be established. Different religious denominations have established colleges for the training of young men and women for the duties of life and citizenship. At the present time the following list of institutions are doing heroic work along educational lines:

Adrian College, at Adrian.
Albion College, at Albion.
Alma College, at Alma.
Hillsdale College, at Hillsdale.
Hope College, at Holland.
Kalamazoo College, at Kalamazoo.
Olivet College, at Olivet.

**College certificates.**

By act 136 of 1893 the State Board of Education was authorized to grant teachers' certificates to persons who receive the bachelor's, master's, or doctor's degree from any college in this State having a course of study actually taught in such college of not less than four years in addition to the preparatory work necessary for admission to the University of Michigan, said certificates to be granted upon the recommendation of the faculty of such college stating that the applicant for such certificate had completed the college course and also a course in the science and art of teaching of at least one college year of five and a half hours per week, said course to have been approved by said State Board of Education. This, in a way, placed these colleges under the supervision of the State, at least to the extent of the pedagogical work. All the colleges named have complied with the statute in their course of study and each year have included among their graduates persons who have completed the college course together with a special pedagogical course. The certificate issued to these persons is denominated a college certificate and during the current year eighty-seven college certificates were granted to graduates of the aforesaid institutions.

**College life certificates.**

These college certificates may be made life certificates by the said State Board of Education when the holder thereof has taught in the State for a period of at least three years. All these institutions are subject to the visitation of the State Superintendent.

On May 15, 1906, application was made by the Board of Control of the Michigan Agricultural College to the State Board of Education for permission to issue college certificates from that institution. On May 26, 1906, the State Board of Education, at a regular meeting thereof, authorized the issuance hereafter of college certificates to graduates of the Michigan Agricultural College who have taken the woman's course. This is clearly in harmony with the statute and with the spirit of our institutions and I look forward to the time in the near future when the course of study for men in this magnificent institution will be so adjusted that college certificates may be issued to men who complete the college course and, in addition thereto, the prescribed pedagogical course. I can see no valid reason why the college certificate requirements should not be included in the general course of the Agricultural College. If this were done, we could get from this institution men and women who would have received special training along the lines of domestic science, manual training, and agriculture, and thus supply experts for these needed lines of instruction. I believe this to be a legitimate part of the work of this special school.

**Course at Agricultural College approved.**

# SPECIAL EDUCATIONAL INSTITUTIONS.

The report of this Department, in addition to giving the statistics concerning the educational institutions of the State, should give some attention to the courses of study and the character of the work done in such institutions. The reports of the University and normal schools will be found in another place. I desire to give here a brief statement in regard to those State institutions which are sometimes not considered educational institutions. I refer to the School for the Blind, School for the Deaf, Industrial School for Boys, Industrial Home for Girls, and State Public School. The first two of these are purely educational in their work. It has been the practice of my predecessors to give a biennial statement in regard to them. Each of these institutions publishes a special report of its own, to which all our people are referred. Brief statements are given in the order named above.

## MICHIGAN SCHOOL FOR THE BLIND.

The Michigan School for the Blind is under a board of trustees appointed by the Governor and confirmed by the Senate. The present members of the board are: T. W. Crissey, president, Midland; F. H. Rankin, vice president and secretary, Flint; Elgin Miflin, treasurer, Lansing.

The total number of instructors employed is fifteen and there are five other employes engaged in general lines of work. Seven of the foregoing are engaged in teaching the special lines of music (vocal and instrumental), piano tuning, broom and brush making, chair caning, rug weaving, hammock and net making, sewing, knitting, and cooking.

There are twelve years in the regular course of study and all students enrolled receive academic instruction. The institution has regular graduating classes each year. During the past two years fifteen young people have been graduated from this institution and have gone out into the world self-supporting. The enrollment for the current year is 120. Clarence E. Holmes is the efficient superintendent of the school and will be glad to enter into correspondence with any who may be interested in this institution.

The people of Michigan should be interested and should lend all the assistance possible to the management in securing the attendance of blind children. In many cases these unfortunate children are kept at home and in ignorance through prejudice or for fear of separation from the home ties. All these seem unwarranted and should not be permitted to interfere with the development of the talent given to these unfortunate children. It is far better to take the blind child from the home and put him in an institution where he can be educated and trained to take care of himself, and thereby made a self-supporting citizen, than to permit him to grow up in idleness and ignorance, and thus be a burden upon his parents and ultimately a public charge. I am credibly informed that there are more blind children in Michigan who are not in this institution than are already under its course of instruction and I fear that many parents and friends are making a serious mistake at this point.

## MICHIGAN SCHOOL FOR THE DEAF.

This institution is under the control of a board consisting of Robert L. Warren, Ann Arbor, president; Allison L. Wright, Bad Axe, secretary; Arthur G. Bishop, Flint, treasurer.

Forty-two instructors are employed, thirty-two of them in regular lines of teaching; one instructor in manual training; two in art; two in sewing; one, tailoring; one, printing; one, cabinet work; one, shop work; one, domestic art.

The school gives a good common school education to those of its pupils who graduate up to about the end of the junior year in the high school of public schools or it fits its graduates to enter Gallaudet College at Washington. In addition to this, instruction is given to girls in all branches of domestic economy except laundry work. Special instruction is given to the boys in shoe-making, cabinet making, tailoring, printing, drafting, and art. The course of study is for thirteen years and all persons enrolled in the school receive academic instruction.

The superintendent reports that if a pupil leaves this school after finishing the tenth grade work, which is a little in advance of the eighth grade in the public schools, he receives a grammar school diploma. After finishing the full work of the school or passing the entrance examination to Gallaudet College, he receives a high school diploma. Pupils who leave the institution at any other time than at the close of the regular grades receive a certificate of character and statement of work done.

During the past two years thirty-six have been graduated from this institution and the enrollment for the current year is 314. Since its establishment 1,717 pupils have received instruction in it and gone out into the world. Of course some of these are now dead and others have been lost sight of, but so far as the officials of the school are able to determine only three graduates of the School for the Deaf have proved unable to support themselves and two of these had other afflictions besides deafness. Mr. Clarke, the superintendent, states that not one of the graduates of this school has ever been convicted of a felony. The most serious offense that has ever been charged against any ex-pupil of this school is assault and battery. This is a remarkable record and one that might well be copied by other of our educational institutions.

Francis D. Clarke has been superintendent of the school for some years and has proven his worth in the results secured. Persons who are interested in this line of instruction should correspond with him.

## INDUSTRIAL SCHOOL FOR BOYS.

The board of control of this institution is composed of William McPherson, Howell, president; Franklin P. Sayre, Flushing, secretary; H. H. Larned, Lansing, treasurer.

The number of actual instructors employed in the school is twenty-three; the number of other employes, thirty-nine. The school proper consists of fourteen rooms, each under the direction of an instructor. The other instructors of the twenty-three mentioned above are engaged as trade teachers. The special lines of work pursued in the institution are printing, shoemaking, carpentry, manual training, painting, baking, tailoring, blacksmithing, stenography, typewriting, care of greenhouse, and farm. The boys who are sent to this institution are given academic instruction, but the course of study comprises the common branches only. The average time for which boys are committed to this institution is about twenty-two months. The character of the institution prevents the pursuit of a course of study similar to the public school course and consequently there are no regular graduating classes. The enrollment at the time of the report given in November, 1906, is 743. E. M. Lawson is the superintendent of the school.

This institution, while denominated a school, is of course somewhat reformatory in its character. The boys are committed to the institution until they are seventeen or eighteen years of age but it is the policy of the Board of Control to parol them as soon as their behavior and home environment will permit.

## INDUSTRIAL HOME FOR GIRLS.

The board of control consists of Gilbert Hart, Detroit, president; Mrs. May Stocking-Knaggs, Bay City, secretary; R. L. Taylor, Adrian, treasurer.

The total number of instructors employed is thirty-eight; number of other employes eleven; number of instructors employed in special lines of work seven. Special instruction is given in this institution in cooking, dressmaking, sewing, knitting, laundry work, orchestral and vocal music, and floriculture.

The institution being somewhat reformatory in its character like the Industrial School for Boys, has no specific period for its course of study. All the girls enrolled, however, receive academic instruction in addition to the special work given above. The superintendent reports that they have regular graduating classes from the cooking and dressmaking departments. The enrollment at the time the report here given was forwarded to the Department, in the month of November, was 316. Mrs. Lucy Sickels is the efficient superintendent of this institution.

## STATE PUBLIC SCHOOL.

The State Public School is under the control of a board consisting of F. M. Stewart, Hillsdale, president; N. A. Reynolds, Coldwater, secretary and treasurer; J. D. Shull, Tecumseh, vice president.

The total number of instructors is six and there are thirty-six other employes. The special lines of work pursued in the institution are domestic science and manual training. This work has been started recently and the results are excellent. One of the instructors mentioned above is employed in this special line of work. The number of years in the course of study depends on the child and the length of time he remains in the school. This institution is only a temporary home for children and very few of them remain long enough to complete a common school education. All the children above four years of age attend kindergarten or day school. At the time of this report there were thirty-five children under four years of age. There are no regular graduating classes from the school because of the character of the institution and the short time that most children remain. The total number of children at this time is 164. The number received on probate order during the year ending June 30, 1906, was 178. Total number cared for during the year 1904-5, 411. Total number cared for during the year 1905-6, 430. The annual per capita cost based on the number cared for during the year 1905-6 was $87.20 The annual per capita cost based upon the number belonging in the school, or 219, was $171.23. The number of children placed in good homes during the year 1905-6 was 220.

It may be interesting to the general public to know just how many children have been received in this institution since the establishment of the school, and what has become of them. I give below, therefore, a brief summary showing these figures:

| | |
|---|---|
| Received since school opened in May, 1874 | 5,904 |
| In families on indentures the first of the month | 1,117 |
| In families on indentures that became operative during the month | 19 |
| In families on trial | 54 |
| Placed in families and residence unknown for over one year | 14 |
| Total from whom reports are to be obtained | 1,204 |
| Remaining in the institution at this date | 164 |
| Total present wards of the school | 1,368 |
| Returned to counties by order of the board | 764 |
| Died in families and in the school | 234 |
| Adopted by proceedings in the probate courts | 701 |
| Have become of legal age | 366 |
| Girls married | 194 |
| Have been restored to parents | 590 |
| Have become self-supporting | 1,687 |
| Total | 5,904 |

Superintendent J. B. Montgomery is the present head of this institution and I may say that the school has never been better handled than during his administration.

## IN CONCLUSION.

The person elected superintendent of public instruction of the State of Michigan enters upon his duties knowing full well the responsibilities of the office and with a desire to maintain the high standards reached by his predecessors. The work of education is one of the most pleasant fields of labor if not the most remunerative. At the close of my administration I understand as never before the great work that has been done for Michigan by the "fathers" in professional and educational lines. I have found the field of work ever a widening one and the opportunities for service rapidly increasing. The Department has made an honest effort during the past two years to advance the cause of education along all lines but especially along the line of the common schools.

The period of my administration has been pleasant and I wish to place on record here my thorough appreciation of the hearty support and cordial cooperation I have received from all those who are interested in educational work in the State. I regret that it is necessary to be separated at the close of my administration from the loyal people whose friendship I prize so highly. I desire especially to express my appreciation of the efficient and earnest services of each person employed in the Department and I realize fully that the loyalty and cooperation of each member of the office force has assisted materially in whatever of success my administration has achieved.

To my worthy successor, Hon. Luther L. Wright, I relinquish the work with the most sincere wish for the largest success of his administration.

Very truly,

Patrick H Kelley.

REPORT OF

BOARD OF CONTROL

OF THE

# MICHIGAN COLLEGE OF MINES.

FISCAL YEARS 1904-5 AND 1905-6.

Two years ago this Board called attention to the need of a new storage shed or building of corrugated iron to replace the old wooden one. Such a building will cost $1,500.00.

**Storage building.**

Twice before has attention been drawn to the need of concrete walks on the College grounds. Steps, floors, and matting are wearing out and extra labor is required in cleaning because of dirt brought into buildings from muddy and dusty walks and roads. There is needed $3,260.00 for this purpose.

**Concrete walks.**

There is appended a tabulation of the needs here set forth and for which the incoming Legislature will be asked to make provision.

## ADDITIONAL BUILDING AND EQUIPMENT NEEDS.

| | |
|---|---|
| Separate central heating and power plant | $43,800 |
| Fire proof building for library and geological collection | 75,000 |
| Storage building | 1,500 |
| Concrete walks and macadam roads | 3,260 |
| | $123,560 |

The following table sets forth the needs of the College for maintenance for the next two fiscal years. These are shown item by item along with the corresponding disbursements of the last fiscal year as given by the College accounts.

**Maintenance needs**

| Accounts. | | Expenditures for last fiscal year. | Needs for fiscal year. | |
|---|---|---|---|---|
| | | 1905–6. | 1907–8. | 1908–9. |
| Administration | | $599 08 | $600 | $600 |
| Chemistry | | 2,467 34 | 2,500 | 2,500 |
| Civil engineering | | 1,580 17 | 1,600 | 1,600 |
| Electrical engineering | | 2 10 | 25 | 25 |
| Freight, etc | | 2,201 09 | 2,200 | 2,200 |
| Geology | | 1,598 90 | 1,600 | 1,600 |
| Grounds | | 1,066 06 | 1,100 | 1,100 |
| Heating and lighting | | 4,102 81 | 4,300 | 4,300 |
| Library | | 2,876 40 | 2,800 | 2,800 |
| Mathematics | | 188 10 | 150 | 150 |
| Mechanical engineering | | 1,561 58 | 1,600 | 1,600 |
| Metallurgy | | 1,311 86 | 1,350 | 1,350 |
| Mineralogy | | 1,346 96 | 1,350 | 1,350 |
| Mining engineering | | 2,126 53 | 2,000 | 2,000 |
| Ore dressing | | 405 94 | 450 | 450 |
| Physical training | | ............ | 1,800 | 1,800 |
| Physics | | 1,370 85 | 1,350 | 1,350 |
| Printing | | 2,183 57 | 2,175 | 2,175 |
| Repairs | | 663 83 | 1,000 | 1,000 |
| Salaries | | 56,835 70 | 57,000 | 57,000 |
| Students' supplies | | 6,920 64 | 7,000 | 7,000 |
| Sundry expense | | 442 24 | 400 | 400 |
| Supplies | | 2,066 63 | 2,075 | 2,075 |
| Total expenditures | | $93,918 38 | | |
| Total needs | | ............ | $96,425 | $96,425 |
| Deduct probable receipts as follows: | | | | |
| Students' supplies | $7,000 | | | |
| Tuition, laboratory fees, etc. | 29,400 | ............ | 36,400 | 36,400 |
| Appropriation needed | | ............ | $60,025 | $60,025 |

A system properly designed to distribute the power should be installed in a tunnel where its pipes and wires are at all times accessible for inspection and repair. The tunnel should connect the power plant with each college building that takes heat, light or power.

A careful estimate gives $43,800.00 as the cost of such a plant and installation. The Board will urgently ask the Legislature of 1907 to make the needed appropriation.

**Building needed for books and collections.**

One of the greatest needs of the College of Mines is a proper building in which to safely house its increasingly valuable collections of scientific and technical books and of mineralogical and geological specimens.

**Room needed for books.**

The space in Hubbell Hall which can be allowed for books is completely filled. Books are being placed on the floor because there is no shelf room for them. It is of the utmost importance that the normal growth of the library shall continue. Two years will overcrowd the present space so that further growth must be stopped. There are no rooms now available in which the work of accessioning and cataloging books and of preparing periodicals for binding can go on. Such work must now prevent access to some of the stacks or trespass on the work of other departments, or both.

Further, the collection includes many books which can no longer be procured, together with others which will soon be in the same class. Hence, fire would inflict loss which could not be repaired. The needed space should therefore be provided in a separate building of fireproof construction.

**Need of room for specimens.**

The illustrative collection of mineralogical and geological specimens is, in its present room, crowded so as to interfere greatly with its use and there is no longer space for new specimens which ought to be acquired. This overcrowded condition obtains in spite of an arrangement original with the department which uses space with the utmost effectiveness. Alumni and other friends of the College are donating from time to time valuable specimens. The College should be in position to accept and properly use such material. The law requires that a collection of the rocks and minerals of Michigan shall be kept. Growth of this Michigan collection should not be prevented. There is great need of work rooms in which specimens may be unpacked and kept while being labeled and prepared for placing on the shelves. Such work, while in progress, now prevents free access to the collection.

Among these specimens are many which can no longer be duplicated. This is true both of Michigan and other material. Fire would inflict here, also, loss which could not be repaired and for this reason the space needed for this collection and for its future growth should be provided in a fireproof structure.

One building may contain both books and specimens. Of sufficient size to provide for a reasonable period of growth and of modern fireproof construction, it will cost $75,000.00. It is immediately needed and the Board will request the Legislature of 1907 for an appropriation therefor.

The space now occupied by the books and specimens is greatly needed to relieve pressure on two departments, namely mathematics and physics and mineralogy and geology. Laboratory and class room space in both departments is overcrowded and the work they do is hampered in consequence.

Two years ago this Board called attention to the need of a new storage shed or building of corrugated iron to replace the old wooden one. Such a building will cost $1,500.00.

**Storage building.**

Twice before has attention been drawn to the need of concrete walks on the College grounds. Steps, floors, and matting are wearing out and extra labor is required in cleaning because of dirt brought into buildings from muddy and dusty walks and roads. There is needed $3,260.00 for this purpose.

**Concrete walks.**

There is appended a tabulation of the needs here set forth and for which the incoming Legislature will be asked to make provision.

## ADDITIONAL BUILDING AND EQUIPMENT NEEDS.

| | |
|---|---:|
| Separate central heating and power plant | $43,800 |
| Fire proof building for library and geological collection | 75,000 |
| Storage building | 1,500 |
| Concrete walks and macadam roads | 3,260 |
| | $123,560 |

The following table sets forth the needs of the College for maintenance for the next two fiscal years. These are shown item by item along with the corresponding disbursements of the last fiscal year as given by the College accounts.

**Maintenance needs**

| Accounts. | | Expenditures for last fiscal year. | Needs for fiscal year. | |
|---|---:|---:|---:|---:|
| | | 1905–6. | 1907–8. | 1908–9. |
| Administration | | $599 08 | $600 | $600 |
| Chemistry | | 2,467 34 | 2,500 | 2,500 |
| Civil engineering | | 1,580 17 | 1,600 | 1,600 |
| Electrical engineering | | 2 10 | 25 | 25 |
| Freight, etc | | 2,201 09 | 2,200 | 2,200 |
| Geology | | 1,598 90 | 1,600 | 1,600 |
| Grounds | | 1,066 06 | 1,100 | 1,100 |
| Heating and lighting | | 4,102 81 | 4,300 | 4,300 |
| Library | | 2,876 40 | 2,800 | 2,800 |
| Mathematics | | 188 10 | 150 | 150 |
| Mechanical engineering | | 1,561 58 | 1,600 | 1,600 |
| Metallurgy | | 1,311 86 | 1,350 | 1,350 |
| Mineralogy | | 1,346 96 | 1,350 | 1,350 |
| Mining engineering | | 2,126 53 | 2,000 | 2,000 |
| Ore dressing | | 405 94 | 450 | 450 |
| Physical training | | ........ | 1,800 | 1,800 |
| Physics | | 1,370 85 | 1,350 | 1,350 |
| Printing | | 2,183 57 | 2,175 | 2,175 |
| Repairs | | 663 83 | 1,000 | 1,000 |
| Salaries | | 56,835 70 | 57,000 | 57,000 |
| Students' supplies | | 6,920 64 | 7,000 | 7,000 |
| Sundry expense | | 442 24 | 400 | 400 |
| Supplies | | 2,066 63 | 2,075 | 2,075 |
| Total expenditures | | $93,918 38 | | |
| Total needs | | ........ | $96,425 | $96,425 |
| Deduct probable receipts as follows: | | | | |
| Students' supplies | $7,000 | | | |
| Tuition, laboratory fees, etc | 29,400 | ........ | 36,400 | 36,400 |
| Appropriation needed | | ........ | $60,025 | $60,025 |

Amount for maintenance.

Though there are small increases in several of the items as shown it is expected that the increase in income received from fees, etc., will take care of these and no more will be asked for maintenance than was appropriated by the Legislature of 1905.

Detailed statements regarding each one of these items will be submitted to the legislative committees.

Conclusion.

The Board of Control believes that the College of Mines is doing a thorough work in preparing young men to enter the mining field and that it is doing it with an economy which compares most favorably with that attained by any other school of engineering in the country and that for these reasons the institution is deserving of the hearty support of the people of the State directly and through their representatives in the Legislature.

WILLIAM KELLY,
Chairman Board of Control.

## LOAN COLLECTION OF TYPICAL ROCKS AND MINERALS OF MICHIGAN.

The Michigan College of Mines is required by law to make and keep a collection of the rocks and minerals of Michigan. Such a collection has been in process of forming for some years. The College desires that this work shall be of the widest possible usefulness to the people of the State. It proposes therefore to do what it may to stimulate among the people an interest in minerals and rocks, especially as they occur in Michigan.

The object is partly economic. Obviously, the more the people in general are interested in the mineral resources of the State, and the greater the knowledge of these possessed by them, the more likely are such resources to be developed, and the greater will be the benefit to the State at large.

Partly, the object is educational. In the same way that botany may contribute to the pleasure of one possessing even a slight knowledge of the plants of his vicinity, in the same way that this knowledge may add to his breadth and culture, so the knowledge of the rocks and minerals may be a powerful influence toward these ends, and may, no less than any other form of nature study, contribute toward good citizenship. The fact that nature study impresses the rule of law in the universe, is nowhere more forcibly illustrated than in the study of the crystal form of minerals, and nowhere in nature are organization and growth more clearly exemplified than in the rocks and minerals which compose the earth.

That the "Michigan Collection" may touch, and be useful to the greatest possible number of the citizens of the State, the College of Mines has undertaken to make up a number of subordinate collections or "sets" of specimens which shall contain a number of the more typical minerals and rocks of the State. No attempt is made to include all, even of the important rocks and minerals, though most of those which lend themselves at all readily to such a purpose will be found among the thirty-eight minerals and sixty-seven rocks of which the set is comprised.

It is the intention to loan these sets of "Typical Rocks and Minerals of Michigan" to such high schools of the State as may be giving instruction in geology, physiography or nature study, and may wish the aid afforded by such a collection. Since it is possible at present to prepare but a limited number of these loan collections each will be loaned to a particular school for a definite period, at the end of which, it will be passed on, in case other schools are applying and cannot be otherwise supplied.

Naturally, one of the conditions of the loan is that the collection shall be put to active use in the instruction work of the school possessing it. (It may be used in the grades as well as in the high school proper.) Another is that it shall be kept at all reasonable times accessible to citizens of the community in which it is for the time located, who may wish to examine specimens of rocks or minerals which it contains. This is in order that it may be of service in helping others as well as the pupils and teachers to identify minerals or rocks which they may have found.

Sometimes specimens will be found which cannot be identified. To meet such cases, the College of Mines is undertaking to identify material which may be collected in Michigan by pupils or citizens of the school district, provided such material is forwarded, carriage paid, through the science teacher, or the principal, or superintendent of schools, and postage for reply is enclosed. In this way, one finding a specimen which cannot be identified by comparison with those in the collection, can, nevertheless, ascertain what it may be, and whether it is of value. Even in those portions of the State where there are no rock outcrops, the glacial drift and almost all stream beds contain interesting rock and mineral fragments, and much pleasure may be derived, and often useful knowledge obtained, from the study of these. The arrangement for identification of specimens includes such drift material as well as that found in its original place.

A preliminary announcement of these loan collections was made by the College at the Marquette meeting of the Upper Reninsula Educational Association. The preparation of them has been unavoidably delayed, but the College is now able to announce that a very limited number are ready for distribution. It is expected that others will be ready in the near future, but, judging from the number of advance inquiries and requests for the sets, the number available for some time to come will doubtless be wholly inadequate to satisfy the call for them, so much greater is it than was anticipated. The advance demand more than justifies what has so far been done, and the College intends to push the work of preparing other sets as rapidly as it consistently can, in the effort to satisfy the call from schools which at this time cannot be accommodated.

Until such time as it will be possible to accommodate all, certain schools must, of course, be preferred. In giving preference to applications, account will be taken of the population of the town or city in which the school is located, the enrollment, and the way in which it is proposed to make use of the collection. The desire is to place the sets

Amount for maintenance.

Though there are small increases in several of the items as shown it is expected that the increase in income received from fees, etc., will take care of these and no more will be asked for maintenance than was appropriated by the Legislature of 1905.

Detailed statements regarding each one of these items will be submitted to the legislative committees.

Conclusion.

The Board of Control believes that the College of Mines is doing a thorough work in preparing young men to enter the mining field and that it is doing it with an economy which compares most favorably with that attained by any other school of engineering in the country and that for these reasons the institution is deserving of the hearty support of the people of the State directly and through their representatives in the Legislature.

WILLIAM KELLY,
Chairman Board of Control.

## LOAN COLLECTION OF TYPICAL ROCKS AND MINERALS OF MICHIGAN.

The Michigan College of Mines is required by law to make and keep a collection of the rocks and minerals of Michigan. Such a collection has been in process of forming for some years. The College desires that this work shall be of the widest possible usefulness to the people of the State. It proposes therefore to do what it may to stimulate among the people an interest in minerals and rocks, especially as they occur in Michigan.

The object is partly economic. Obviously, the more the people in general are interested in the mineral resources of the State, and the greater the knowledge of these possessed by them, the more likely are such resources to be developed, and the greater will be the benefit to the State at large.

Partly, the object is educational. In the same way that botany may contribute to the pleasure of one possessing even a slight knowledge of the plants of his vicinity, in the same way that this knowledge may add to his breadth and culture, so the knowledge of the rocks and minerals may be a powerful influence toward these ends, and may, no less than any other form of nature study, contribute toward good citizenship. The fact that nature study impresses the rule of law in the universe, is nowhere more forcibly illustrated than in the study of the crystal form of minerals, and nowhere in nature are organization and growth more clearly exemplified than in the rocks and minerals which compose the earth.

That the "Michigan Collection" may touch, and be useful to the greatest possible number of the citizens of the State, the College of Mines has undertaken to make up a number of subordinate collections or "sets" of specimens which shall contain a number of the more typical minerals and rocks of the State. No attempt is made to include all, even of the important rocks and minerals, though most of those which lend themselves at all readily to such a purpose will be found among the thirty-eight minerals and sixty-seven rocks of which the set is comprised.

It is the intention to loan these sets of "Typical Rocks and Minerals of Michigan" to such high schools of the State as may be giving instruction in geology, physiography or nature study, and may wish the aid afforded by such a collection. Since it is possible at present to prepare but a limited number of these loan collections each will be loaned to a particular school for a definite period, at the end of which, it will be passed on, in case other schools are applying and cannot be otherwise supplied.

Naturally, one of the conditions of the loan is that the collection shall be put to active use in the instruction work of the school possessing it. (It may be used in the grades as well as in the high school proper.) Another is that it shall be kept at all reasonable times accessible to citizens of the community in which it is for the time located, who may wish to examine specimens of rocks or minerals which it contains. This is in order that it may be of service in helping others as well as the pupils and teachers to identify minerals or rocks which they may have found.

Sometimes specimens will be found which cannot be identified. To meet such cases, the College of Mines is undertaking to identify material which may be collected in Michigan by pupils or citizens of the school district, provided such material is forwarded, carriage paid, through the science teacher, or the principal, or superintendent of schools, and postage for reply is enclosed. In this way, one finding a specimen which cannot be identified by comparison with those in the collection, can, nevertheless, ascertain what it may be, and whether it is of value. Even in those portions of the State where there are no rock outcrops, the glacial drift and almost all stream beds contain interesting rock and mineral fragments, and much pleasure may be derived, and often useful knowledge obtained, from the study of these. The arrangement for identification of specimens includes such drift material as well as that found in its original place.

A preliminary announcement of these loan collections was made by the College at the Marquette meeting of the Upper Reninsula Educational Association. The preparation of them has been unavoidably delayed, but the College is now able to announce that a very limited number are ready for distribution. It is expected that others will be ready in the near future, but, judging from the number of advance inquiries and requests for the sets, the number available for some time to come will doubtless be wholly inadequate to satisfy the call for them, so much greater is it than was anticipated. The advance demand more than justifies what has so far been done, and the College intends to push the work of preparing other sets as rapidly as it consistently can, in the effort to satisfy the call from schools which at this time cannot be accommodated.

Until such time as it will be possible to accommodate all, certain schools must, of course, be preferred. In giving preference to applications, account will be taken of the population of the town or city in which the school is located, the enrollment, and the way in which it is proposed to make use of the collection. The desire is to place the sets where each will be of the greatest aid to the greatest number. Other things being equal, date of mailing application will determine precedence.

An application blank is furnished which is to be filled out and signed by the superintendent of schools or the principal of the high school and it is to be signed also by the proper officers of the school board or board of education. This blank states the conditions under which the set is loaned, and the length of time it may be retained by the school before being passed on to some other applicant.

With each set of specimens there is furnished one copy of "Notes on Rocks and Minerals of Michigan" issued by the Department of Geology of the College of Mines. Additional copies may be purchased of the College at 50 cents each, net.

# SUPREME COURT DECISIONS

IN MATTERS OF

# EDUCATIONAL INTEREST.

# DECISIONS OF THE SUPREME COURT.

## JACKSON vs MASON.

(Opinion filed July 23, 1906.)

COMPULSORY EDUCATION—AGE LIMIT—ACT 200 P. A. 1905 CONSTRUED.

Act 200, Public Acts of 1905, providing for the compulsory education of children, and providing that parents, etc., "having control and charge of any child or children between and including the ages of seven and fifteen years, shall be required to send such child or children to the public schools," etc., does not apply to children above the age of fifteen years. (Montgomery and Hooker dissenting, holding that the word "including" includes the year in which the child is generally spoken of as fifteen years of age.)

H. Clair Jackson for relator.
Henry E. Chase and Thomas A. Lawler for respondent.
Before McAlvay, Grant, Blair, Montgomery and Ostrander, justices.

McALVAY, J.

Certiorari to mandamus proceedings before the Circuit Court for Kalamazoo County.

Relator, prosecuting attorney for Kalamazoo, by written order directed and requested respondent, judge of the Recorder's Court of the City of Kalamazoo, to take the complaint of John H. Blaney, and issue a warrant for one Arend Bos, of said city, for a violation of Act 200 of Public Acts of 1905. The recorder took said complaint, but refused to issue a warrant upon it, for the reason that in his opinion the complaint did not set forth a violation of said act. Said act is entitled "An act to provide for the compulsory education of children, for penalties for failure to comply with the provisions of this act, and to repeal all acts or parts of acts conflicting with the provisions of the same." Section 1 provides: "Every parent, guardian or other person in the State of Michigan having control and charge of any child or children between and including the ages of seven and fifteen years, shall be required to send such child or children to the public schools during the entire school year. * * * "

Section 3 makes a failure to comply with the provisions of the act a misdemeanor and fixes the penalty.

The child in this case was of the age of fifteen years and three months. An order to show why a writ of mandamus should not issue compelling respondent to issue said warrant, issued from the Circuit Court, and upon a hearing the writ was denied and the proceeding dismissed.

The provision of the act repealed by this act relative to the age limit was, "* * * between the ages of eight and fifteen years, and in cities between the ages of seven and fifteen years." (Act No. 83, P. A. 1901.) This repealed the provision of a former act which was as follows: "* * * between the ages of eight and sixteen years, and in cities between the ages of seven and sixteen years." (Act No. 95, P. A. 1895.)

The only question in the case is whether the statute applies to children above the age of fifteen years. The Circuit Court held that it did not, and error is alleged upon such holding.

The contention of the relator is that it applies to children over seven years and under sixteen years of age.

The words of the statute before us for construction are, "any child or children between and including the ages of seven and fifteen years." It is urged that to give any force to the word "including" the section must be construed to include children during the entire fifteenth year and until they become sixteen years old.

The statute is not ambiguous in designating the age limit between the ages of seven and fifteen years. The word including has no force to extend that limit beyond the time specifically designated. A child over fifteen years of age is not between the ages of seven and fifteen years, and therefore not within the provisions of the act.

An examination of these provisions of the earlier acts shows, that by the act of 1895 compulsory education was enforceable for a period of eight years as to children not in cities, and as to children in cities for a period of nine years; that by the act of 1901 compulsory education was enforceable for a period of seven years as to children not in cities, and as to children in cities for a period of eight years. In each of these acts the children in cities were subject to its provisions one year earlier in life than other children in the State.

The evident intent of the Legislature in the portion of the act of 1905 under discussion, establishing the limit between the ages of seven and fifteen years, being a period of eight years, was to fix the same age limit for all of the children in the State, at such a time in their lives, and for such a term between the two extremes of the former acts as experience had shown would be most satisfactory.

The judgment of the Circuit Court is affirmed, without costs.

Carpenter, C. J., and Grant, Blair, Ostrander, and Moore, J. J., concurred.

MONTGOMERY AND HOOKER, J. J.

We think the statute treats the year as the unit, and that it follows that the words "seven to fifteen years inclusive" includes the year in which the child is generally spoken of as fifteen years of age. See C. L., Sec. 50.

## DEEDS vs. BOARD OF EDUCATION.

(Opinion filed October 1, 1906.)

PUBLIC SCHOOLS—TEACHERS' CONTRACTS—DISMISSAL ON 30 DAYS' NOTICE.

The provision of the Detroit charter conferring upon the Board of Education power relative to the employment of teachers, their powers and duties, gives the board power to incorporate a provision in a teacher's contract for dismissal on thirty days' notice.

Where a teacher's contract provides for dismissal on thirty days' notice the board have power to dismiss before the term of service begins.

Wesley L. Nutten for plaintiff and appellant.

Timothy E. Tarsney and P. J. M. Halley for defendant and appellee.

Before Blair, Montgomery, Ostrander, Hooker, and Moore, justices.

BLAIR, J.

Plaintiff was appointed by defendant in June, 1903, a teacher in the public schools and a contract tendered her, containing, among other provisions, the following:

"The conditions of this appointment are that you are subject to assignment or transfer at the discretion of the board; to dismissal upon thirty days' notice; or at any time for wilful violation of any rule of the board, or for misconduct or incompetency; * * * that you will at least give one month's notice to the superintendent of intended resignation and that you know of no reason why you will not serve to the end of the term."

Plaintiff accepted the appointment in writing as follows:

"I accept the appointment of teacher in the Public Schools of Detroit, tendered me in your notice dated June 15, 1903, at the salary named, and agree to the conditions prescribed therein."

Prior to the commencement of her term of service, defendant notified plaintiff of her dismissal and paid her one month's salary. Plaintiff refused to accept her dismissal, tendered performance of the services contracted for and notified defendant that she should insist upon her salary for the year. This action was brought to recover such salary.

There being no disputed facts, the jury which heard the evidence was discharged by consent and the determination of the case left to the circuit judge, who found for the defendant and entered judgment of no cause of action. To reverse this judgment, plaintiff brings the cause to this court by writ of error.

The contract is plain and unambiguous and clearly gave the right to discharge the plaintiff, if the provision as to dismissal upon thirty days' notice was within the legal powers of the board. The fact that the notice of dismissal was given before the commencement of the service was unimportant.

Derry vs. Board of Education, 102 Mich., 631.

A different question would arise if it were sought to determine the contract on the ground of the teacher's incompetency before the beginning of the term. Plaintiff insists, however, "that the thirty day clause in question is against public policy and void." As this point was not made in Derry vs. Board of Education, supra, nor considered by the court, we must regard it as open. Counsel cite in support of this contention:

Thompson vs. Gibbs, 97 Tenn., 489.

That case, like Carver vs. School District, 113 Mich., 529, was decided upon a construction of statutory provisions. The Tennessee statute, after giving the school directors power to employ teachers, authorized them "to dismiss them for incompetence, improper conduct, or inattention." It was, therefore, held that: "This right of dismissal is, however, limited to the cause of removal specified in the statute."

The provisions of the statute under consideration in Carver vs. School District, supra, do not govern the case now before us. As said by this court in Coffin vs. Board of Education, 114 Mich., 342:

"The contract of employment was not like the one in Carver vs. School District, 113 Mich., 524. There the statute prescribed what the contract should contain."

In the instant case, the Detroit charter confers extensive powers upon the school board:

"Said board shall always have the authority to make by-laws and ordinances relative to the making of all necessary reports and transmitting the same to the proper officers, as designated by law, so that said city may be entitled to its proportion of the primary school fund; relative to the visitation of schools; relative to the length of time schools will be kept, which shall not be less than three months in each year; relative to the employment and examination of teachers, their powers and duties; relative to the regulation of schools and the books to be used therein; relative to anything whatever that may advance the interests of education, the good government and prosperity of the free schools in said city and the welfare of the public concerning the same."

The regulations which the Legislature has itself seen fit to prescribe for schools generally it has authorized the board of education of Detroit to determine for the schools of Detroit, and we think the provision in question was within the authority granted.

Weatherly vs. Mayer, etc., 48 S. W., (Tenn.) 136.

The judgment is affirmed.

MONTGOMERY, J.

I think it not essential to a decision to determine whether the school board may under the general statute incorporate ground for terminating the teacher's contract in addition to those prescribed by statute, and prefer to express no opinion upon that question. I concur in the conclusion reached by Mr. Justice Blair.

OSTRANDER, J.

I concur in affirming the judgment of the court below. I agree with Mr. Justice Blair in the conclusion that the powers of the defendant board of education are sufficiently broad to support the contract in question. It is the import of the opinion, however, emphasized, it seems to me, by the omission to refer in any way to the opinion of this court in Kingston vs. School District No. 5, 140 Mich., 603, that the contract can be sustained only because the powers of the defendant board of education are greater than those of the ordinary district board. In other words, the effect of the opinion is that it is not competent in ordinary cases for the school district and the teacher to agree in writing that the contract of employment may be terminated upon thirty days' notice given by either. So far as the contracts are concerned, the only difference between the one here involved and the one in Coffin vs. Board of Education, 114 Mich., 342, are the provisions precisely in question here, viz.: "To dismissal upon thirty days' notice," and "You will at least give one month's notice to the superintendent of intended resignation," provisions which did not appear in the contract in that case and are in the contract in the case at bar.

It is said in the brief of counsel for defendant that the experience of the defendant board in the Coffin case led to the adoption of the form of contract which is questioned in the present case. I know of no decision of this court in which the rule is laid down that the ordinary school district and the teacher may not contract to terminate the contract upon notice.

Hooker and Moore, JJ., concurred with Ostrander J.

## SCHOOL BOARD OF DISTRICT NO 5 vs. HAMILTON TOWNSHIP.

(Opinion filed November 13, 1906.)

### CERTIORARI—SCHOOLS—NEW SCHOOL DISTRICT.

Certiorari will not be issued to set aside the action of a township board setting aside the organization of a new school district where it appears from the return that the granting of the writ will result in injustice.

George J. Cummins for plaintiff in certiorari.
John Quinn for defendant in certiorari.
Before Carpenter, McAlvay, Grant, Blair, and Montgomery, justices.

PER CURIAM.

A writ of certiorari brings before us for review the proceedings of defendant setting aside the organization of the plaintiff school district. That district was organized June 9, 1906, by the school inspectors of Hamilton township, Clare county. It was composed of four sections, two of which were taken from District No. 2 and two from District No. 3, of Hamilton township. It appears from the return of defendant—which must be taken as true—that the property of the new district has an assessed valuation of $14,610, and that the effect of its organization will be to reduce the property in school District No. 2 from an assessed valuation of $29,760 to $24,020, and that of District No. 3 from $27,110 to $19,360. The organization was set aside by defendant because "with this territory detached, said districts (2 and 3) will be unable to maintain their schools as they should be without imposing a greater burden upon the residents than they are able to bear, and the new district proposed to be formed * * * will be in the same condition, so that two good school districts are sacrificed for the sake of having three poor ones."

Plaintiff in certiorari asks us to reverse the action of the township board because of various irregularities in its proceedings. If plaintiff had a legal right to have a court review those proceedings, it is possible that its claim of error would be allowed. But it has no such right. At least, it has not that right in this case. As heretofore stated, this case is brought before us by writ of certiorari. That writ—the issuance of which is largely discretionary—will not be permitted to accomplish a palpable injustice (West vs. Parkinson, 130 Mich. 481, and authorities there cited), and it is clear for the reason stated by respondent that injustice would be accomplished by setting aside the order under consideration, and sustaining the organization of the plaintiff school district.

The writ of certiorari is dismissed.

# EXAMINATION QUESTIONS

FOR

# STATE AND COUNTY CERTIFICATES

AND

# EIGHTH GRADE DIPLOMAS.

1906.

STATE EXAMINATIONS: MARCH AND AUGUST.
COUNTY EXAMINATIONS: JUNE, AUGUST AND OCTOBER.
EIGHTH GRADE EXAMINATION: MAY.

# STATE EXAMINATIONS.

## I. Questions prepared by the State Board of Education for the State examination held at Lansing and Marquette, March 26–30, 1906.

### ALGEBRA.

Answer ten questions.

1. A passenger train, after travelling an hour, meets with an accident which detains it ½ hour; after which it proceeds at ¾ its usual rate, and arrives 1½ hours late. If the accident had happened 30 miles farther on the train would have been only an hour late. Determine the usual rate of the train.
2. A wishes to pay B a debt of £1, 12 s., but has only half-crowns in his pocket, while B has only 4 penny pieces. How may they settle the matter most simply?
3. The letters being unequal and positive, show that the sum of any fraction and its reciprocal is greater than 2.
4. State the laws for positive and integral exponents. Show the meaning of fractional, zero, and negative exponents.
5. Extract the square roots of:
   (a) $a^2 - 2b\sqrt{a^2 - b^2}$.
   (b) $(a + b)^2 - 4(a - b)\sqrt{ab}$.
6. What is the price of eggs per dozen when 2 more in a shilling's worth lowers the price 1 penny per dozen?
7. A in running a race with B to a post and back, met him 10 yards from the post. To make it a dead heat B must increase his rate from this point 41 ⅔ yds. per minute, and if without changing his pace he had turned back on meeting, he would have come 4 seconds after him. How far was it to the post?
8. A quantity of milk is increased by watering in the ratio of 4:5 and then 3 gals. are sold; the remainder is mixed with 3 qts. of water and is increased in the ratio of 6:7. How many gallons of milk were there at first?
9. A body falls through space $16\frac{1}{12}$ ft. the first second and in each succeeding second $32\frac{1}{6}$ ft. more than in the next preceding one. How far will it fall in 20 seconds?
10. Prove that if two series arranged by powers of x are equal for all the values of x that make both series convergent, the corresponding coefficients are equal each to each.
11. Show that the successive convergents are alternately greater than and less than the true value of the given fraction.
12. Show that if $\frac{a}{b}$, a fraction in its lowest terms, is equal to another fraction $\frac{c}{d}$ then c and d are equimultiples of a and b.

### ARITHMETIC.

1. Simplify:
   (a) $\dfrac{\frac{1}{2} + \frac{3}{4}}{\frac{7}{8}} \div \dfrac{2 + 5\frac{1}{3}}{9}$.
   (b) $12 + \frac{2}{3} \times 6 \div 6 + 4 \div 5$.
2. If a river having a current of 2 miles an hour averages 10 ft. deep and is 1 mile wide how many gallons of water pass any given point each second?

Note.—Indicate with proper signs and numbers the solution of this problem without the computations.

3. A man walks at the rate of 4 miles an hour and his son at the rate of 3 miles an hour. They start at the same time from the S. E. corner of a 20-acre rectangular field whose length is twice its breadth, the man traveling around the field and the son in a straight line toward the N. W. corner. The one who arrives first at this point travels towards the other until they meet. Which one will reach the N. W. corner first and how far will he travel beyond this to meet the other?
4. Locate with proper base line and meridian the N. ½ of the E. ½ of the S. E. ¼ of the N. W. ¼ of Sec. 22, T. 7 N., R. 2 W. and find the cost of this parcel of land at $75 per acre.
5. A cube of prairie hay 7 ft. on an edge weighs a ton 30 days after being stacked. If it takes 33⅓ per cent more in bulk of eastern hay for a ton, what is the edge of a cube containing 8 tons of eastern hay?
6. A ship at 62° 3′ 40″ W. receives a wireless telegram from one at 60° 1′ 10″ W. at 11 A. M. What was the time where it was sent?
7. A man wishes to loan a certain sum of money at 6% payable annually with enough of the debt paid annually to make a yearly income of $500 for his wife during a period of ten years, the tenth payment paying the balance due on the debt. What amount must he loan?

Note.—Indicate the solution.

8. (a) Bought 40 shares of stock and sold it at 127⅛, gaining $80. What was my purchase price?
   (b) A horse is tied with a rope 100 ft. long which is fastened to a post at a height of 30 ft. Over how many square feet can he graze?
9. An agent receives 2% for buying and 4% for selling. He sells a quantity of wheat and invests the proceeds less his double commission in sugar. His entire commission on both deals was $63. How much did he pay for the sugar? Analyze.
10. A substance is weighed from both arms of a false balance. In one arm it weighs 18 lbs. and in the other arm 8 lbs. What is its true weight? Analyze.

## BOTANY.

1. What are the parts of a cell? Describe cell contents and multiplication of cells.
2. (a) In what form is sugar found in beets, corn, cane, etc.?
   (b) Describe tests for glucose, oil, gum resin, starch.
3. Define tissue, name four kinds, and describe formation of each.
4. Describe the anatomy of a leaf. What is the function of leaves?
5. (a) Define the terms pericarp, dehiscence, follicle, legume pyxis, silique.
   (b) Describe three kinds of fruits.
6. (a) Name three legumes.
   (b) Why are they beneficial to the farm and the farmer?
7. Describe the growth and flower of the mallow family.
8. Define osmosis and describe its application in plant life.
9. Name the four classes of climbing plants and describe each.
10. (a) Define pollination.
    (b) Explain the terms entomophilous, anemophilous, monecious, dioecious.

## CHEMISTRY.

1. Give two theories which have been advanced to account for the change of color of indicators accompanying a change from an acid to an alkaline reaction and *vice versa*.
2. Use the following atomic weights in the calculation:
   Ag = 108; N = 14; O = 16; K = 39; Na = 23; Cl = 35.5.
   1.598 gms. of a mixture of potassium chloride and sodium chloride were dissolved in water, and the solution made up to 250 c.c.
   25 c.c. of this solution were titrated against 23.4 c.c. of tenth-normal silver nitrate solution. What was the per cent of KCl and NaCl contained in the mixture?
3. What is meant by the strength of an acid? Give in some detail two physico-chemical methods for comparing the strength of acids.
4. Write an account of the discovery, occurrence, and properties of radium.
5. In what connection, in what manner, and by what experimental illustrations should the topic of dissociation be presented to students of the fourth year in the high school?
6. Outline an approved method for the sanitary analysis (a) of water, (b) of milk.

7. Describe the process of converting (a) limestone into quickstone, and (b) quick lime into slacked lime. Write the equation for such reaction.
8. Tell how aluminum chloride is used for synthetical purposes, give some details of the operation of the (Fried & Crafts) reaction, and mention one important synthesis made by its aid.

## CIVICS.

1. Explain the reason for teaching history and civics in the same year in the high school and show briefly how it may be done.
2. Name the departments of the United States government and some of the work done by each.
3. Give a full account of the United States diplomatic service.
4. What is the purpose of the constitutional convention upon the calling of which the people of Michigan are to vote at the spring election? Why is it desirable?
5. What is the substance and purpose of the good roads law passed by the last legislature of Michigan?
6. Explain the methods of assessing property and levying and collecting taxes. Include the work of the supervisor, board of review, board of supervisors, county treasurer, Auditor General, and State Board of Equalization.
7. Discuss briefly primary reform, municipal ownership, service pension, Chinese exclusion act, railroad rate regulation.
8. What is the origin of the chancery court and what is the function of that court in Michigan at present?
9. Why is the teaching of patriotism necessary in our public schools? How may it be done?
10. Give an account of the different constitutions of Michigan. How may the constitution be amended?

## GENERAL HISTORY.

1. What work is recommended by the commission on high school course of study for ninth grade history?
2. (a) Name three European nations who have had new rulers during the year just past.
   (b) Compare the powers of the French President with those of the American.
3. (a) Define duma.
   (b) What constitutional rights have been granted the Russians?
   (c) State the chief provisions of the Portsmouth treaty.
4. What are the chief political parties in England at the present time? Name some of the political leaders and state some of the political questions.
5. Compare the history of the Phoenicians with that of the Babylonians and Assyrians Which history was of more importance to the world? Why?
6. Trace the downfall of the Roman Republic step by step.
7. What principles and conditions contributed to the upbuilding of Spain and what ones caused her downfall?
8. (a) What was the critical period in the religious history of England? Why?
   (b) Name the Tudor Line.
9. What constitutional reforms and limitations of royal authority took place in England in the seventeenth century and how were they effected?
10. (a) What is meant by "Balance of Power?"
    (b) Mention two instances in which this "Balance of Power" has been disturbed and the results in both cases.

## GEOGRAPHY.

1. Give an outline for the study of Michigan geography.
2. Name ten leading cities in different parts of the world with reasons for the location and growth of each.
3. How will you explain the change of seasons and cause of day and night to a grammar grade class?
4. Give a complete statement of the following points on Belgium: (a) physical features; (b) principal industries and products; (c) people, manners, and customs; (d) language and religion.
5. Where are the following produced in greatest quantities: linen, books, olives, anthracite coal, peaches, rubber goods, watches, mens' clothing, salt, beet sugar?

6. (a) What products do the United States and South American countries exchange?
   (b) What is meant by reciprocity?
   (c) How does the operation of the Monroe Doctrine affect geography?
7. Locate and describe the following: caverns of Louvay, great barrier reef, Isle of Man, Mount Washington, Lachine Rapids.
8. Give an account of the production and manufacture of chicory, paper, pig iron.
9. Give some methods of doing field work in geography and results that might be expected.
10. Give twenty reference books for a library in geography. Star eight of the most important.

## GEOLOGY.

1. (a) What are the great divisions of geology?
   (b) What is the relation of geology to geography?
2. What atmospheric agencies have been active in producing changes on the earth? Give the changes they have made.
3. Describe the aqueous agencies and results.
4. Describe a barrier reef and locate several.
5. (a) What are the means of geological observations?
   (b) What are the general laws of continental form?
6. Describe stratified rocks and name the three great groups or kinds.
7. Define dip and strike, syncline, conformity, cleavage.
8. What are fossils? In what rocks are they found? Name several.
9. Define veins, faults, fissures, and give the theory of the formation of metalliferous veins.
10. Give the characteristics, fossils, and formations of the Paleozoic era.

## GEOMETRY.

1. A B C D is a quadrilateral inscribed in a circle. If sides A B and C D be produced to intersect at O, and sides A D and B C produced at F, prove bisectors of angles E and F perpendicular.
2. Prove: The square of the common tangent to two circles which are tangent to each other externally is equal to four times the product of their radii.
3. A crescent shaped region is bounded by a semi-circumference of radius A and another circular arc whose center lies on the semi-circumference produced. Find area and perimeter of the region.
4. From two given points on the same side of a plane draw two lines meeting in a given plane and making equal angles with it.
5. Show that there are infinite number of pairs of lines answering the conditions of the preceding exercise, and that the points in which they meet the plane are in the circumference of a circle.
6. An equilateral triangle revolves about one of its altitudes. Compare the volume of the solids generated by the triangle, the inscribed circle, and the circumscribed circle.
7. Prove the area of a spherical triangle, expressed in spherical degrees, is numerically equal to the spherical excess of the triangle.
8. If the radii of two concentric spheres are r and *r*, and if a plane is drawn tangent to the interior sphere, what is the area of the section made in the sphere?
9. Demonstrate: If two great circles intersect on the surface of a hemisphere, the sum of either set of opposite triangles equals a line whose angle is the corresponding angle of the semi circles.
10. Given a spherical segment to find its volume.

## GERMAN.

1. Write a German letter of twenty-five words.
2. Quote a German poem.
3. Decline this white flower, a large house, the small table.
4. Translate:

'Man kam die Treppe herauf. "Herein!" Es war die Wirtin. "Ein Brief für Sie, Herr Werner!" Dann entfernte sie sich wieder. Reinhardt öffnete und las, und bald las er folgendes;

"In Deinem Alter, mein liebes Kind, hat noch fast jedes Jahr sein eigenes Gesicht: denn die Jugend läszt sich nicht immer ärmer machen. Hier ist auch manches anders geworden, was Dir wohl erstan weh thun wird, wenn ich Dich sonst recht verstanden habe. Erich hat sich gestern endlich das Jawort von Elisabeth geholt, nachdem er in dem letzten Vierteljahr zweimal vergebens angefragt hat. Sie hatte sich immer nicht dazu entschliezsen können; nun hat sie es endlich doch gethan; sie ist auch noch gar so jung. Die Hochzeit soll bald sein, und die Mutter wird dann mit ihnen fortgehen." '

5. What prepositions govern the dative? the accusative?
6. Give synopsis of:
   (a) "To wash one's self," first person singular, active indicative.
   (b) "To praise," third person singular, passive indicative.
   (c) "To praise," third person plural, active indicative.
7. Translate:

"Die armen Kindlein, die unshuldigen,
Das treue Weib musz ich vor deiner Wut
Beschützen, Landvogt!—Da, als ich den Bogenstrang
Anzog—als mir die Hand erzitterte—
Als du mit grausam teufelischer Lust
Mich zwangst, aufs Haupt des Kindes anzulegen—
Als ich ohnmächtig flehend rang vor dir,
Damals gelobt! ich mir in meinem Innern
Mit furchtbarm Eidschwur, den nur Gott gehört,
Dasz meines nächsten Schusses erstes Ziel
Dein Herz sein sollte—Was ich mir gelobt
In jenes Augenblickes Höllenqualen,
Ist eine heil'ge Schuld—ich will sie zahlen."

8. Translate:
   (a) I like to read.
   (b) He has been waiting for his brother since half past nine.
   (c) I do not know what is to become of me.
   (d) He is said to be very rich.
   (e) He has not been allowed to go down town because he is suffering from a severe headache.

9-10. Give in German a synopsis of some German book you have read.

## GRAMMAR.

(a) Refined policy ever has been the parent of confusion; *and will ever be so, as long as the world endures.*

(b) Plain good intention, which is as easily discovered at the first view as fraud is surely detected at last, is, let me say, of no mean force in the government of mankind.

(c) Genuine simplicity of heart is a healing and correcting principle.

(d) My plan, therefore, being formed upon the most simple grounds imaginable may disappoint some people, when they hear it.

(e) It does not institute a magnificent auction of finance, where captivated provinces come to general ransom by bidding against each other, until you knock down the hammer, and determine a proportion of payments beyond all the powers of algebra to equalize and settle.—*Edmund Burke.*

Note.—The first four questions are based upon the above selection.

1. Analyze the italicized part of (a).
2. What are the subordinate clauses in the remaining sentences?
3. Give each infinitive and each participle and its construction.
4. Select and parse the verbs in the passive voice.
5. (a) Upon what are rules of syntax based?
   (b) Give an example of an allowable use of a word in violation of an established rule of syntax.
6. Being charged with being too young to assume the responsibilities of teaching sometimes has been the "last straw" in the bundle of difficulties, all others of which had been successfully surmounted by the applicant for a certificate. Analyze or diagram.
7. Parse *charged, young, to assume.*
8. Using sentences to illustrate, discuss the uses of the following words: shall and will; was and were following if; only; the verb be following such expressions as either he or I, neither you or nor he, etc.; on and upon; in and into.

9. Is there any violation of good English in the following sentences? Give reasons for your answer.
   "This people, who knoweth not the law, are cursed."
   "The army—which a month ago was pining for peace—are now, to a man, clamorous for war."
   "There goes a pair that only spoil one another."
   "I believe it to be he."
   "I wish it to be him."
10. Dispose of the verbals in the following sentences:
    I observed him coming.
    Sooner than make this concession, I will go to law.
    It came to pass.
    He was first to come.
    Be so kind as to excuse me.
    I do not know where to begin.

## LATIN.

1. Translate:
   Loci natura erat haec, quem locum nostri castris delegerant. Collis ab summo aequaliter declivis ad flumen Sabim, quod supra nominavimus, vergebat. Ab eo flumine pari acclivitate collis nascebatur adversus huic et contrarius passus circiter ducentos infimus apertus, ab superiore parte silvestris, ut non facile introrsus perspici posset. Intra eas silvas hostes in occulto sese continebant; in aperto loco secundum flumen paucae sationes equitum videbantur. Flumenis erat altitudo circiter pedum trium.
2. Discuss fully conditional sentences.
3. Give a synopsis of:
   (a) "To come" in third person, singular, active indicative.
   (b) "To praise" in third person plural, active indicative.
   (c) "To rule" in first person plural, active subjunctive.
   (d) "To destroy" in third person singular, passive indicative.
4. Give the case endings of the five declensions.
5. Discuss indirect discourse. Illustrate.
6. Decline day, good sailor, no war, body, horn.
7. Distinguish between alter....alter and alius....alius.
8. Translate:
   Eodem fere tempore Publius Crassus, cum in Aquitaniam pervenisset, quae pars, ut ante dictum est, et regionum latitudine et multitudine hominum ex tertia parte Galliae est existimanda, cum intellegeret, in eis locis sibi bellum gerendum, ubi paucis ante annis Lucius Valerius Praeconinus legatus exercitu pulso interfetcus esset, atque unde Lucius Mallius proconsul impedimentis amissis profugisset, non mediocrem sibi diligentiam adhibendam intellegebat.
9-10. Translate into Latin:
   (a) The soldiers set out from Rome in Italy and went to Carthage in Africa.
   (b) Caesar drew up a battle line of six cohorts.
   (c) He had led his soldiers across the river because of the scarcity of grain supplies.
   (d) He said that the town should be destroyed.
   (e) Do you think he will come? I do not.

## LITERATURE.

1. Compare Addison and Irving as men and as authors.
2. What phase of Bryant's life do the following lines portray?

"Though forced to drudge for the dregs of men,
And scrawl strange words with a barbarous pen,
And mingle among the jostling crowd,
Where the sons of strife are subtle and loud—
I often come to this quiet place,
To breathe the airs that ruffle thy face,
And gaze upon thee in silent dream,
For in thy lonely and lovely stream
An image of that calm life appears
That won my heart in my greenest years."

3. Explain the following lines from Wordsworth:

> "Now, while the birds thus sing a joyous song,
> And while the young lambs bound
> As to the tabor's sound,
> To me alone there came a thought of grief;
> A timely utterance gave that thought relief,
> And I again am strong."

4. Explain how Bryant and Wordsworth differ in their treatment of nature.
5. An eminent critic says of Burns: "He is the best song writer of the world." Justify this remark?
6. How does the Queen Anne age differ from the age of Romanticism? Name the principal romanticists and a characteristic work of each. How does Chatterton represent this period?
7. Name the authors of the following works:
   My Study Windows, Canterbury Tales, Man Without a Country, Grandfather's Chair, A Tale of Two Cities, Home, Sweet Home, Rob Roy, Pippa Passes, The Last Leaf, Rise of the Dutch Republic, Star Spangled Banner, Pamela, Essay on Man, Utopia, Euphues, Elsie Venner, The Princess, Silas Marner, The Ancient Mariner.
8. Name three eminent essayists of to-day. Characterize the style and subjects of their works.
9. Give a series of masterpieces suitable for study in the four high school grades.
10. Make a classified list of all the classic English literature you have read.

## ORTHOGRAPHY.

1. (a) What use of the dictionary should high school pupils be able to make?
   (b) Outline a plan for advanced pupils which would insure facility in the use of and familiarity with a dictionary.
   (c) What should pupils below the high school be taught regarding the dictionary and its use?
   (d) Give the names of three dictionaries of recognized authority and state six or more divisions of information contained in any one of them.
2. (a) Compare the words motherly and maternal as to origin and use.
   (b) Give the *etymology* of philogy, forsaken, geological, skeptic, abbreviate.
3. Distinguish between the specific meaning of the following pairs of words and use each correctly in a complete sentence: amateur, connoisseur; jeer, sneer; detriment, disadvantage; deft, dexterous; federation, union.
4. Mark diacritically the words in the following stanza:

> "For though from out our bourne of Time and Place
> The flood may bear me far,
> I hope to see my Pilot face to face
> When I have crossed the bar."

5. (a) What are the four principal uses of silent letters?
   (b) Give five rules for silent letters.
6. Define language, consonant, abbreviation, articulation, phonetics.

## LIST OF WORDS.

1. Ecuador
2. philanthropy
3. vacuum
4. collectible
5. trachea
6. Sierra Madre
7. antithesis
8. Renaissance
9. porcelain
10. utilitarian
11. Chautauqua
12. legislation
13. fanciful
14. utensil
15. chronicle
16. habitat
17. Caucasus
18. reprieve
19. counselor
20. proviso
21. Cebu
22. rinse
23. shepherd
24. valiant
25. accompaniment
26. siphon
27. prophecy
28. bankable
29. Philippines
30. defiant

31. epoch
32. exhilarates
33. Oklahoma
34. hectagon
35. wherever
36. spherical
37. scythe
38. Menominee
39. corps
40. Sebewaing
41. enthusiastic
42. vaseline
43. available
44. resuscitate
45. tonnage
46. rapturous
47. logarithm
48. heinous
49. accuracy
50. outrageous

## PHYSICS.

1. Deduce mathematically the equation for the period of a pendulum. The value of g. in Ann Arbor is 980.29; what is the length there of a seconds pendulum?
2. How should 90 cells each with a resistance of 2 ohms be arranged so as to secure the greatest current through a circuit of 10 ohms external resistance? How to obtain the greatest efficiency?
3. How much heat is required to melt a kilogram of ice at 0°C and heat the resulting water to the boiling point? If the same amount of heat were applied to 10 kilograms of copper at 0°C to what temperature would it be heated? Specific heat of copper .095.
4. (a) What are the relative brightnesses of two lights which illuminate equally a surface which is respectively 17.3 cm. and 23.8 cm. from the lights?
   (b) Explain what is meant by the production of cold by absorption; by dispersion; by interference. Give samples of each.
5. Tell how to determine the power of a small demonstration engine.
6. Outline a plan for presenting to a class of high school pupils the meaning of the center of gravity.
7. Under standard conditions the density of air is .001293 g. per cubic centimeter. What is its density in the receiver of an air pump when the manometer indicates .1 mm. and the temperature is 70° F.?
8. If the barometer stands at 28 inches, what is the elastic tension of the air in dynes per square centimeter? Define a foot poundal in terms of the units of length, mass, and time.

## PHYSIOLOGY.

1. What practical suggestions did the State Board of Health give the public during 1905 regarding typhoid fever?
2. (a) What are lymph spaces?
   (b) Describe the lymphatic system stating the necessity for the system, the origin and course of the lymphatics, reasons for the flow of the lymph, and use of the lymphatic glands.
3. Mention five common diseases of the ear and give the causes and effects of the same.
4. Give a laboratory experiment to (a) test the purity of air, (b) show the composition of bones, (c) study the growth of yeast, (d) show osmosis (e) test milk for carbohydrates.
5. What is meant by abnormal breathing? By costal breathing? Explain normal breathing.
6. Define oxidation. State its importance and relation to life with special reference to the physical life of man.
7. Discuss the advantages and disadvantages of reflex action.
8. Name ten emergencies which might arise at school which the teacher should be able to care for. Give the *essential* treatment for five of these.
9. (a) What is the value of meat as food? In what ways is it deficient as food?
   (b) What is ptomaine poisoning?
   (c) What diseases may be transmitted by food and in general how may they be avoided?
10. Compare the physiological advantages of such games as tennis, basket ball, base ball, and the like, with those of systematic gymnastics and physical culture drills.

## RHETORIC.

1. (a) State different methods of paragraph development.
   (b) Develop one of the following topic sentences into a paragraph of 100 words:
      Football should be amended.
      Congress should regulate railroad rates.
      Foreign immigration should be restricted.
      The United States should construct the Isthmian canal.
      School attendance should be made compulsory.
2. Suggest means of gaining originality and fluency in oral composition.
3. How may the study of exposition be made interesting and practical? Suggest topics for the four years of high school work.
4. What are the essentials of a good sentence and of a good paragraph?
5. Define figures of speech, diction, triteness, good use, tautology, redundancy, verbosity.
6. Write a letter of application.
7. Outline a discussion stating your own question and arranging the points on both sides.
8. What is the relation of the study of good literature to good composition?
9. What qualities in English are essential for journalism, law, preaching?
10. Characterize the English teaching of our high schools making plain its weakness and strength as you see it.

## SCHOOL LAW.

1. Give the chief provisions of the free text-book law.
2. Give the substance of the law in regard to selection and adoption of text-books.
3. What powers has a superintendent of schools not possessed by a teacher?
4. (a) Under what conditions may a graded school district be organized?
   (b) What powers has a graded school district not possessed by a primary school district?
5. Under what conditions does a school district forfeit its primary school fund?
6. Give the provisions of the statute in regard to the taking of the school census. Why is such a census necessary?
7. Why must a teacher have a written contract? What are the necessary conditions precedent to the making of such a contract?
8. How and for what reasons may a school district officer be removed from office?
9. Who may grant teachers certificates in Michigan? Under what conditions do their certificates become valid in a specified county?
10. Why should a teacher have a thorough knowledge of school law?

## THEORY AND ART.

1. Discuss the professional ethics of the teacher.
2. Give sketch of Pestalozzi, of Froebel, of Horace Mann.
3. What standard educational works have you read? Outline one of them.
4. What is the real aim in teaching arithmetic, grammar, literature?
5. Define attention and give several methods of securing and holding it.
6. Give three laws of mind and the corresponding laws of teaching.
7. It is said that the four tests of a school are (a) amount of physical development, (b) amount of mental action inspired, (c) amount of information gained, (d) amount of moral action inspired. Discuss each and select the highest test.
8. Name the five kinds of emotion. Which should the school cultivate?
9. How much memorizing should be done in the schools? Why?
10. Define concept, precept, adjudgment, judgment, memory.

## UNITED STATES HISTORY.

1. Show specifically how a knowledge of European history is essential to the teacher of United States history.
2. What is source material? Give lists of such material applicable to the different periods of United States history. What material can be used by the pupils in the high school and how?

3. A man walks at the rate of 4 miles an hour and his son at the rate of 3 miles an hour. They start at the same time from the S. E. corner of a 20-acre rectangular field whose length is twice its breadth, the man traveling around the field and the son in a straight line toward the N. W. corner. The one who arrives first at this point travels towards the other until they meet. Which one will reach the N. W. corner first and how far will he travel beyond this to meet the other?
4. Locate with proper base line and meridian the N. ½ of the E. ½ of the S. E. ¼ of the N. W. ¼ of Sec. 22, T. 7 N., R. 2 W. and find the cost of this parcel of land at $75 per acre.
5. A cube of prairie hay 7 ft. on an edge weighs a ton 30 days after being stacked. If it takes 33⅓ per cent more in bulk of eastern hay for a ton, what is the edge of a cube containing 8 tons of eastern hay?
6. A ship at 62° 3′ 40″ W. receives a wireless telegram from one at 60° 1′ 10″ W. at 11 A. M. What was the time where it was sent?
7. A man wishes to loan a certain sum of money at 6% payable annually with enough of the debt paid annually to make a yearly income of $500 for his wife during a period of ten years, the tenth payment paying the balance due on the debt. What amount must he loan?

Note.—Indicate the solution.

8. (a) Bought 40 shares of stock and sold it at 127⅛, gaining $80. What was my purchase price?
   (b) A horse is tied with a rope 100 ft. long which is fastened to a post at a height of 30 ft. Over how many square feet can he graze?
9. An agent receives 2% for buying and 4% for selling. He sells a quantity of wheat and invests the proceeds less his double commission in sugar. His entire commission on both deals was $63. How much did he pay for the sugar? Analyze.
10. A substance is weighed from both arms of a false balance. In one arm it weighs 18 lbs. and in the other arm 8 lbs. What is its true weight? Analyze.

## BOTANY.

1. What are the parts of a cell? Describe cell contents and multiplication of cells.
2. (a) In what form is sugar found in beets, corn, cane, etc.?
   (b) Describe tests for glucose, oil, gum resin, starch.
3. Define tissue, name four kinds, and describe formation of each.
4. Describe the anatomy of a leaf. What is the function of leaves?
5. (a) Define the terms pericarp, dehiscence, follicle, legume pyxis, silique.
   (b) Describe three kinds of fruits.
6. (a) Name three legumes.
   (b) Why are they beneficial to the farm and the farmer?
7. Describe the growth and flower of the mallow family.
8. Define osmosis and describe its application in plant life.
9. Name the four classes of climbing plants and describe each.
10. (a) Define pollination.
    (b) Explain the terms entomophilous, anemophilous, monecious, dioecious.

## CHEMISTRY.

1. Give two theories which have been advanced to account for the change of color of indicators accompanying a change from an acid to an alkaline reaction and *vice versa.*
2. Use the following atomic weights in the calculation:

   Ag = 108; N = 14; O = 16; K = 39; Na = 23; Cl = 35.5.

   1.598 gms. of a mixture of potassium chloride and sodium chloride were dissolved in water, and the solution made up to 250 c.c.

   25 c.c. of this solution were titrated against 23.4 c.c. of tenth-normal silver nitrate solution. What was the per cent of KCl and NaCl contained in the mixture?
3. What is meant by the strength of an acid? Give in some detail two physico-chemical methods for comparing the strength of acids.
4. Write an account of the discovery, occurrence, and properties of radium.
5. In what connection, in what manner, and by what experimental illustrations should the topic of dissociation be presented to students of the fourth year in the high school?
6. Outline an approved method for the sanitary analysis (a) of water, (b) of milk.

7. Describe the process of converting (a) limestone into quickstone, and (b) quick lime into slacked lime. Write the equation for such reaction.
8. Tell how aluminum chloride is used for synthetical purposes, give some details of the operation of the (Fried & Crafts) reaction, and mention one important synthesis made by its aid.

## CIVICS.

1. Explain the reason for teaching history and civics in the same year in the high school and show briefly how it may be done.
2. Name the departments of the United States government and some of the work done by each.
3. Give a full account of the United States diplomatic service.
4. What is the purpose of the constitutional convention upon the calling of which the people of Michigan are to vote at the spring election? Why is it desirable?
5. What is the substance and purpose of the good roads law passed by the last legislature of Michigan?
6. Explain the methods of assessing property and levying and collecting taxes. Include the work of the supervisor, board of review, board of supervisors, county treasurer, Auditor General, and State Board of Equalization.
7. Discuss briefly primary reform, municipal ownership, service pension, Chinese exclusion act, railroad rate regulation.
8. What is the origin of the chancery court and what is the function of that court in Michigan at present?
9. Why is the teaching of patriotism necessary in our public schools? How may it be done?
10. Give an account of the different constitutions of Michigan. How may the constitution be amended?

## GENERAL HISTORY.

1. What work is recommended by the commission on high school course of study for ninth grade history?
2. (a) Name three European nations who have had new rulers during the year just past.
   (b) Compare the powers of the French President with those of the American.
3. (a) Define duma.
   (b) What constitutional rights have been granted the Russians?
   (c) State the chief provisions of the Portsmouth treaty.
4. What are the chief political parties in England at the present time? Name some of the political leaders and state some of the political questions.
5. Compare the history of the Phoenicians with that of the Babylonians and Assyrians Which history was of more importance to the world? Why?
6. Trace the downfall of the Roman Republic step by step.
7. What principles and conditions contributed to the upbuilding of Spain and what ones caused her downfall?
8. (a) What was the critical period in the religious history of England? Why?
   (b) Name the Tudor Line.
9. What constitutional reforms and limitations of royal authority took place in England in the seventeenth century and how were they effected?
10. (a) What is meant by "Balance of Power?"
    (b) Mention two instances in which this "Balance of Power" has been disturbed and the results in both cases.

## GEOGRAPHY.

1. Give an outline for the study of Michigan geography.
2. Name ten leading cities in different parts of the world with reasons for the location and growth of each.
3. How will you explain the change of seasons and cause of day and night to a grammar grade class?
4. Give a complete statement of the following points on Belgium: (a) physical features; (b) principal industries and products; (c) people, manners, and customs; (d) language and religion.
5. Where are the following produced in greatest quantities: linen, books, olives, anthracite coal, peaches, rubber goods, watches, mens' clothing, salt, beet sugar?

3. A man walks at the rate of 4 miles an hour and his son at the rate of 3 miles an hour. They start at the same time from the S. E. corner of a 20-acre rectangular field whose length is twice its breadth, the man traveling around the field and the son in a straight line toward the N. W. corner. The one who arrives first at this point travels towards the other until they meet. Which one will reach the N. W. corner first and how far will he travel beyond this to meet the other?
4. Locate with proper base line and meridian the N. ½ of the E. ½ of the S. E. ¼ of the N. W. ¼ of Sec. 22, T. 7 N., R. 2 W. and find the cost of this parcel of land at $75 per acre.
5. A cube of prairie hay 7 ft. on an edge weighs a ton 30 days after being stacked. If it takes 33⅓ per cent more in bulk of eastern hay for a ton, what is the edge of a cube containing 8 tons of eastern hay?
6. A ship at 62° 3′ 40″ W. receives a wireless telegram from one at 60° 1′ 10″ W. at 11 A. M. What was the time where it was sent?
7. A man wishes to loan a certain sum of money at 6% payable annually with enough of the debt paid annually to make a yearly income of $500 for his wife during a period of ten years, the tenth payment paying the balance due on the debt. What amount must he loan?

**Note.—Indicate the solution.**

8. (a) Bought 40 shares of stock and sold it at 127⅓, gaining $80. What was my purchase price?
   (b) A horse is tied with a rope 100 ft. long which is fastened to a post at a height of 30 ft. Over how many square feet can he graze?
9. An agent receives 2% for buying and 4% for selling. He sells a quantity of wheat and invests the proceeds less his double commission in sugar. His entire commission on both deals was $63. How much did he pay for the sugar? Analyze.
10. A substance is weighed from both arms of a false balance. In one arm it weighs 18 lbs. and in the other arm 8 lbs. What is its true weight? Analyze.

## BOTANY.

1. What are the parts of a cell? Describe cell contents and multiplication of cells.
2. (a) In what form is sugar found in beets, corn, cane, etc.?
   (b) Describe tests for glucose, oil, gum resin, starch.
3. Define tissue, name four kinds, and describe formation of each.
4. Describe the anatomy of a leaf. What is the function of leaves?
5. (a) Define the terms pericarp, dehiscence, follicle, legume pyxis, silique.
   (b) Describe three kinds of fruits.
6. (a) Name three legumes.
   (b) Why are they beneficial to the farm and the farmer?
7. Describe the growth and flower of the mallow family.
8. Define osmosis and describe its application in plant life.
9. Name the four classes of climbing plants and describe each.
10. (a) Define pollination.
    (b) Explain the terms entomophilous, anemophilous, monecious, dioecious.

## CHEMISTRY.

1. Give two theories which have been advanced to account for the change of color of indicators accompanying a change from an acid to an alkaline reaction and *vice versa*.
2. Use the following atomic weights in the calculation:
   Ag = 108; N = 14; O = 16; K = 39; Na = 23; Cl = 35.5.
   1.598 gms. of a mixture of potassium chloride and sodium chloride were dissolved in water, and the solution made up to 250 c.c.
   25 c.c. of this solution were titrated against 23.4 c.c. of tenth-normal silver nitrate solution. What was the per cent of KCl and NaCl contained in the mixture?
3. What is meant by the strength of an acid? Give in some detail two physico-chemical methods for comparing the strength of acids.
4. Write an account of the discovery, occurrence, and properties of radium.
5. In what connection, in what manner, and by what experimental illustrations should the topic of dissociation be presented to students of the fourth year in the high school?
6. Outline an approved method for the sanitary analysis (a) of water, (b) of milk.

7. Describe the process of converting (a) limestone into quickstone, and (b) quick lime into slacked lime. Write the equation for such reaction.
8. Tell how aluminum chloride is used for synthetical purposes, give some details of the operation of the (Fried & Crafts) reaction, and mention one important synthesis made by its aid.

## CIVICS.

1. Explain the reason for teaching history and civics in the same year in the high school and show briefly how it may be done.
2. Name the departments of the United States government and some of the work done by each.
3. Give a full account of the United States diplomatic service.
4. What is the purpose of the constitutional convention upon the calling of which the people of Michigan are to vote at the spring election? Why is it desirable?
5. What is the substance and purpose of the good roads law passed by the last legislature of Michigan?
6. Explain the methods of assessing property and levying and collecting taxes. Include the work of the supervisor, board of review, board of supervisors, county treasurer, Auditor General, and State Board of Equalization.
7. Discuss briefly primary reform, municipal ownership, service pension, Chinese exclusion act, railroad rate regulation.
8. What is the origin of the chancery court and what is the function of that court in Michigan at present?
9. Why is the teaching of patriotism necessary in our public schools? How may it be done?
10. Give an account of the different constitutions of Michigan. How may the constitution be amended?

## GENERAL HISTORY.

1. What work is recommended by the commission on high school course of study for ninth grade history?
2. (a) Name three European nations who have had new rulers during the year just past.
   (b) Compare the powers of the French President with those of the American.
3. (a) Define duma.
   (b) What constitutional rights have been granted the Russians?
   (c) State the chief provisions of the Portsmouth treaty.
4. What are the chief political parties in England at the present time? Name some of the political leaders and state some of the political questions.
5. Compare the history of the Phoenicians with that of the Babylonians and Assyrians Which history was of more importance to the world? Why?
6. Trace the downfall of the Roman Republic step by step.
7. What principles and conditions contributed to the upbuilding of Spain and what ones caused her downfall?
8. (a) What was the critical period in the religious history of England? Why?
   (b) Name the Tudor Line.
9. What constitutional reforms and limitations of royal authority took place in England in the seventeenth century and how were they effected?
10. (a) What is meant by "Balance of Power?"
    (b) Mention two instances in which this "Balance of Power" has been disturbed and the results in both cases.

## GEOGRAPHY.

1. Give an outline for the study of Michigan geography.
2. Name ten leading cities in different parts of the world with reasons for the location and growth of each.
3. How will you explain the change of seasons and cause of day and night to a grammar grade class?
4. Give a complete statement of the following points on Belgium: (a) physical features; (b) principal industries and products; (c) people, manners, and customs; (d) language and religion.
5. Where are the following produced in greatest quantities: linen, books, olives, anthracite coal, peaches, rubber goods, watches, mens' clothing, salt, beet sugar?

6. (a) What products do the United States and South American countries exchange?
   (b) What is meant by reciprocity?
   (c) How does the operation of the Monroe Doctrine affect geography?
7. Locate and describe the following: caverns of Louvay, great barrier reef, Isle of Man, Mount Washington, Lachine Rapids.
8. Give an account of the production and manufacture of chicory, paper, pig iron.
9. Give some methods of doing field work in geography and results that might be expected.
10. Give twenty reference books for a library in geography. Star eight of the most important.

## GEOLOGY.

1. (a) What are the great divisions of geology?
   (b) What is the relation of geology to geography?
2. What atmospheric agencies have been active in producing changes on the earth? Give the changes they have made.
3. Describe the aqueous agencies and results.
4. Describe a barrier reef and locate several.
5. (a) What are the means of geological observations?
   (b) What are the general laws of continental form?
6. Describe stratified rocks and name the three great groups or kinds.
7. Define dip and strike, syncline, conformity, cleavage.
8. What are fossils? In what rocks are they found? Name several.
9. Define veins, faults, fissures, and give the theory of the formation of metalliferous veins.
10. Give the characteristics, fossils, and formations of the Paleozoic era.

## GEOMETRY.

1. A B C D is a quadrilateral inscribed in a circle. If sides A B and C D be produced to intersect at O, and sides A D and B C produced at F, prove bisectors of angles E and F perpendicular.
2. Prove: The square of the common tangent to two circles which are tangent to each other externally is equal to four times the product of their radii.
3. A crescent shaped region is bounded by a semi-circumference of radius A and another circular arc whose center lies on the semi-circumference produced. Find area and perimeter of the region.
4. From two given points on the same side of a plane draw two lines meeting in a given plane and making equal angles with it.
5. Show that there are infinite number of pairs of lines answering the conditions of the preceding exercise, and that the points in which they meet the plane are in the circumference of a circle.
6. An equilateral triangle revolves about one of its altitudes. Compare the volume of the solids generated by the triangle, the inscribed circle, and the circumscribed circle.
7. Prove the area of a spherical triangle, expressed in spherical degrees, is numerically equal to the spherical excess of the triangle.
8. If the radii of two concentric spheres are r and r, and if a plane is drawn tangent to the interior sphere, what is the area of the section made in the sphere?
9. Demonstrate: If two great circles intersect on the surface of a hemisphere, the sum of either set of opposite triangles equals a line whose angle is the corresponding angle of the semi circles.
10. Given a spherical segment to find its volume.

## GERMAN.

1. Write a German letter of twenty-five words.
2. Quote a German poem.
3. Decline this white flower, a large house, the small table.
4. Translate:
   'Man kam die Treppe herauf. "Herein!" Es war die Wirtin. "Ein Brief für Sie, Herr Werner!" Dann entfernte sie sich wieder. Reinhardt öffnete und las, und bald las er folgendes;

"In Deinem Alter, mein liebes Kind, hat noch fast jedes Jahr sein eigenes Gesicht: denn die Jugend läszt sich nicht immer ärmer machen. Hier ist auch manches anders geworden, was Dir wohl erstan weh thun wird, wenn ich Dich sonst recht verstanden habe. Erich hat sich gestern endlich das Jawort von Elisabeth geholt, nachdem er in dem letzten Vierteljahr zweimal vergebens angefragt hat. Sie hatte sich immer nicht dazu entschliezsen können; nun hat sie es endlich doch gethan; sie ist auch noch gar so jung. Die Hochzeit soll bald sein, und die Mutter wird dann mit ihnen fortgehen."'

5. What prepositions govern the dative? the accusative?
6. Give synopsis of:
   (a) "To wash one's self," first person singular, active indicative.
   (b) "To praise," third person singular, passive indicative.
   (c) "To praise," third person plural, active indicative.
7. Translate:

"Die armen Kindlein, die unshuldigen,
Das treue Weib musz ich vor deiner Wut
Beschützen, Landvogt!—Da, als ich den Bogenstrang
Anzog—als mir die Hand erzitterte—
Als du mit grausam teufelischer Lust
Mich zwangst, aufs Haupt des Kindes anzulegen—
Als ich ohnmächtig flehend rang vor dir,
Damals gelobt! ich mir in meinem Innern
Mit furchtbarm Eidschwur, den nur Gott gehört,
Dasz meines nächsten Schusses erstes Ziel
Dein Herz sein sollte—Was ich mir gelobt
In jenes Augenblickes Höllenqualen,
Ist eine heil'ge Schuld—ich will sie zahlen."

8. Translate:
   (a) I like to read.
   (b) He has been waiting for his brother since half past nine.
   (c) I do not know what is to become of me.
   (d) He is said to be very rich.
   (e) He has not been allowed to go down town because he is suffering from a severe headache.

9-10. Give in German a synopsis of some German book you have read.

## GRAMMAR.

(a) Refined policy ever has been the parent of confusion; *and will ever be so, as long as the world endures.*

(b) Plain good intention, which is as easily discovered at the first view as fraud is surely detected at last, is, let me say, of no mean force in the government of mankind.

(c) Genuine simplicity of heart is a healing and correcting principle.

(d) My plan, therefore, being formed upon the most simple grounds imaginable may disappoint some people, when they hear it.

(e) It does not institute a magnificent auction of finance, where captivated provinces come to general ransom by bidding against each other, until you knock down the hammer, and determine a proportion of payments beyond all the powers of algebra to equalize and settle.—*Edmund Burke.*

Note.—The first four questions are based upon the above selection.

1. Analyze the italicized part of (a).
2. What are the subordinate clauses in the remaining sentences?
3. Give each infinitive and each participle and its construction.
4. Select and parse the verbs in the passive voice.
5. (a) Upon what are rules of syntax based?
   (b) Give an example of an allowable use of a word in violation of an established rule of syntax.
6. Being charged with being too young to assume the responsibilities of teaching sometimes has been the "last straw" in the bundle of difficulties, all others of which had been successfully surmounted by the applicant for a certificate. Analyze or diagram.
7. Parse *charged*, *young*, *to assume*.
8. Using sentences to illustrate, discuss the uses of the following words: shall and will; was and were following if; only; the verb be following such expressions as either he or I, neither you or nor he, etc.; on and upon; in and into.

9. Is there any violation of good English in the following sentences? Give reasons for your answer.
"This people, who knoweth not the law, are cursed."
"The army—which a month ago was pining for peace—are now, to a man, clamorous for war."
"There goes a pair that only spoil one another."
"I believe it to be he."
"I wish it to be him."
10. Dispose of the verbals in the following sentences:
I observed him coming.
Sooner than make this concession, I will go to law.
It came to pass.
He was first to come.
Be so kind as to excuse me.
I do not know where to begin.

## LATIN.

1. Translate:
Loci natura erat haec, quem locum nostri castris delegerant. Collis ab summo aequaliter declivis ad flumen Sabim, quod supra nominavimus, vergebat. Ab eo flumine pari acclivitate collis nascebatur adversus huic et contrarius passus circiter ducentos infimus apertus, ab superiore parte silvestris, ut non facile introrsus perspici posset. Intra eas silvas hostes in occulto sese continebant; in aperto loco secundum flumen paucae sationes equitum videbantur. Flumenis erat altitudo circiter pedum trium.
2. Discuss fully conditional sentences.
3. Give a synopsis of:
(a) "To come" in third person, singular, active indicative.
(b) "To praise" in third person plural, active indicative.
(c) "To rule" in first person plural, active subjunctive.
(d) "To destroy" in third person singular, passive indicative.
4. Give the case endings of the five declensions.
5. Discuss indirect discourse. Illustrate.
6. Decline day, good sailor, no war, body, horn.
7. Distinguish between alter....alter and alius....alius.
8. Translate:
Eodem fere tempore Publius Crassus, cum in Aquitaniam pervenisset, quae pars, ut ante dictum est, et regionum latitudine et multitudine hominum ex tertia parte Gallaiae est existimanda, cum intellegeret, in eis locis sibi bellum gerendum, ubi paucis ante annis Lucuis Valerius Praeconinus legatus exercitu pulso interfetcus esset, atque unde Lucius Mallius proconsul impedimentis amissis profugisset, non mediocrem sibi diligentiam adhibendam intellegebat.
9-10. Translate into Latin:
(a) The soldiers set out from Rome in Italy and went to Carthage in Africa.
(b) Caesar drew up a battle line of six cohorts.
(c) He had led his soldiers across the river because of the scarcity of grain supplies.
(d) He said that the town should be destroyed.
(e) Do you think he will come? I do not.

## LITERATURE.

1. Compare Addison and Irving as men and as authors.
2. What phase of Bryant's life do the following lines portray?

"Though forced to drudge for the dregs of men,
And scrawl strange words with a barbarous pen,
And mingle among the jostling crowd,
Where the sons of strife are subtle and loud—
I often come to this quiet place,
To breathe the airs that ruffle thy face,
And gaze upon thee in silent dream,
For in thy lonely and lovely stream
An image of that calm life appears
That won my heart in my greener years."

3. Explain the following lines from Wordsworth:

> "Now, while the birds thus sing a joyous song,
> And while the young lambs bound
> As to the tabor's sound,
> To me alone there came a thought of grief;
> A timely utterance gave that thought relief,
> And I again am strong."

4. Explain how Bryant and Wordsworth differ in their treatment of nature.
5. An eminent critic says of Burns: "He is the best song writer of the world." Justify this remark?
6. How does the Queen Anne age differ from the age of Romanticism? Name the principal romanticists and a characteristic work of each. How does Chatterton represent this period?
7. Name the authors of the following works:
   My Study Windows, Canterbury Tales, Man Without a Country, Grandfather's Chair, A Tale of Two Cities, Home, Sweet Home, Rob Roy, Pippa Passes, The Last Leaf, Rise of the Dutch Republic, Star Spangled Banner, Pamela, Essay on Man, Utopia, Euphues, Elsie Venner, The Princess, Silas Marner, The Ancient Mariner.
8. Name three eminent essayists of to-day. Characterize the style and subjects of their works.
9. Give a series of masterpieces suitable for study in the four high school grades.
10. Make a classified list of all the classic English literature you have read.

## ORTHOGRAPHY.

1. (a) What use of the dictionary should high school pupils be able to make?
   (b) Outline a plan for advanced pupils which would insure facility in the use of and familiarity with a dictionary.
   (c) What should pupils below the high school be taught regarding the dictionary and its use?
   (d) Give the names of three dictionaries of recognized authority and state six or more divisions of information contained in any one of them.
2. (a) Compare the words motherly and maternal as to origin and use.
   (b) Give the *etymology* of philogy, forsaken, geological, skeptic, abbreviate.
3. Distinguish between the specific meaning of the following pairs of words and use each correctly in a complete sentence: amateur, connoisseur; jeer, sneer; detriment, disadvantage; deft, dexterous; federation, union.
4. Mark diacritically the words in the following stanza:

> "For though from out our bourne of Time and Place
> The flood may bear me far,
> I hope to see my Pilot face to face
> When I have crossed the bar."

5. (a) What are the four principal uses of silent letters?
   (b) Give five rules for silent letters.
6. Define language, consonant, abbreviation, articulation, phonetics.

## LIST OF WORDS.

1. Ecuador
2. philanthropy
3. vacuum
4. collectible
5. trachea
6. Sierra Madre
7. antithesis
8. Renaissance
9. porcelain
10. utilitarian
11. Chautauqua
12. legislation
13. fanciful
14. utensil
15. chronicle
16. habitat
17. Caucasus
18. reprieve
19. counselor
20. proviso
21. Cebu
22. rinse
23. shepherd
24. valiant
25. accompaniment
26. siphon
27. prophecy
28. bankable
29. Philippines
30. defiant

31. epoch
32. exhilarates
33. Oklahoma
34. hectagon
35. wherever
36. spherical
37. scythe
38. Menominee
39. corps
40. Sebewaing
41. enthusiastic
42. vaseline
43. available
44. resuscitate
45. tonnage
46. rapturous
47. logarithm
48. heinous
49. accuracy
50. outrageous

## PHYSICS.

1. Deduce mathematically the equation for the period of a pendulum. The value of g. in Ann Arbor is 980.29; what is the length there of a seconds pendulum?
2. How should 90 cells each with a resistance of 2 ohms be arranged so as to secure the greatest current through a circuit of 10 ohms external resistance? How to obtain the greatest efficiency?
3. How much heat is required to melt a kilogram of ice at 0°C and heat the resulting water to the boiling point? If the same amount of heat were applied to 10 kilograms of copper at 0°C to what temperature would it be heated? Specific heat of copper .095.
4. (a) What are the relative brightnesses of two lights which illuminate equally a surface which is respectively 17.3 cm. and 23.8 cm. from the lights?
   (b) Explain what is meant by the production of cold by absorption; by dispersion; by interference. Give samples of each.
5. Tell how to determine the power of a small demonstration engine.
6. Outline a plan for presenting to a class of high school pupils the meaning of the center of gravity.
7. Under standard conditions the density of air is .001293 g. per cubic centimeter. What is its density in the receiver of an air pump when the manometer indicates .1 mm. and the temperature is 70° F.?
8. If the barometer stands at 28 inches, what is the elastic tension of the air in dynes per square centimeter? Define a foot poundal in terms of the units of length, mass, and time.

## PHYSIOLOGY.

1. What practical suggestions did the State Board of Health give the public during 1905 regarding typhoid fever?
2. (a) What are lymph spaces?
   (b) Describe the lymphatic system stating the necessity for the system, the origin and course of the lymphatics, reasons for the flow of the lymph, and use of the lymphatic glands.
3. Mention five common diseases of the ear and give the causes and effects of the same.
4. Give a laboratory experiment to (a) test the purity of air, (b) show the composition of bones, (c) study the growth of yeast, (d) show osmosis (e) test milk for carbohydrates.
5. What is meant by abnormal breathing?' By costal breathing? Explain normal breathing.
6. Define oxidation. State its importance and relation to life with special reference to the physical life of man.
7. Discuss the advantages and disadvantages of reflex action.
8. Name ten emergencies which might arise at school which the teacher should be able to care for. Give the *essential* treatment for five of these.
9. (a) What is the value of meat as food? In what ways is it deficient as food?
   (b) What is ptomaine poisoning?
   (c) What diseases may be transmitted by food and in general how may they be avoided?
10. Compare the physiological advantages of such games as tennis, basket ball, base ball, and the like, with those of systematic gymnastics and physical culture drills.

## RHETORIC.

1. (a) State different methods of paragraph development.
   (b) Develop one of the following topic sentences into a paragraph of 100 words:
      Football should be amended.
      Congress should regulate railroad rates.
      Foreign immigration should be restricted.
      The United States should construct the Isthmian canal.
      School attendance should be made compulsory.
2. Suggest means of gaining originality and fluency in oral composition.
3. How may the study of exposition be made interesting and practical? Suggest topics for the four years of high school work.
4. What are the essentials of a good sentence and of a good paragraph?
5. Define figures of speech, diction, triteness, good use, tautology, redundancy, verbosity.
6. Write a letter of application.
7. Outline a discussion stating your own question and arranging the points on both sides.
8. What is the relation of the study of good literature to good composition?
9. What qualities in English are essential for journalism, law, preaching?
10. Characterize the English teaching of our high schools making plain its weakness and strength as you see it.

## SCHOOL LAW.

1. Give the chief provisions of the free text-book law.
2. Give the substance of the law in regard to selection and adoption of text-books.
3. What powers has a superintendent of schools not possessed by a teacher?
4. (a) Under what conditions may a graded school district be organized?
   (b) What powers has a graded school district not possessed by a primary school district?
5. Under what conditions does a school district forfeit its primary school fund?
6. Give the provisions of the statute in regard to the taking of the school census. Why is such a census necessary?
7. Why must a teacher have a written contract? What are the necessary conditions precedent to the making of such a contract?
8. How and for what reasons may a school district officer be removed from office?
9. Who may grant teachers certificates in Michigan? Under what conditions do their certificates become valid in a specified county?
10. Why should a teacher have a thorough knowledge of school law?

## THEORY AND ART.

1. Discuss the professional ethics of the teacher.
2. Give sketch of Pestalozzi, of Froebel, of Horace Mann.
3. What standard educational works have you read? Outline one of them.
4. What is the real aim in teaching arithmetic, grammar, literature?
5. Define attention and give several methods of securing and holding it.
6. Give three laws of mind and the corresponding laws of teaching.
7. It is said that the four tests of a school are (a) amount of physical development, (b) amount of mental action inspired, (c) amount of information gained, (d) amount of moral action inspired. Discuss each and select the highest test.
8. Name the five kinds of emotion. Which should the school cultivate?
9. How much memorizing should be done in the schools? Why?
10. Define concept, precept, adjudgment, judgment, memory.

## UNITED STATES HISTORY.

1. Show specifically how a knowledge of European history is essential to the teacher of United States history.
2. What is source material? Give lists of such material applicable to the different periods of United States history. What material can be used by the pupils in the high school and how?

3. Give a history of each of the two leading parties of to-day. Why should there be two parties?
4. Show the correlation of United States history, geography, and literature.
5. Give an outline of the growth of the idea of union ending in the present constitutional government.
6. Sketch the financial history of the United States.
7. Give a list of twenty-five volumes suitable for reference books in a school library on United States history. Star the ten most important ones.
8. Give the important historical events in the lives of Henry Clay, Daniel Webster, and James G. Blaine. Give the att tude of each upon the current issues and show how this affected the chances of each for the Presidency.
9. (a) Who are the leaders in the present Congress?
   (b) Name six important measures which have been passed or are now under consideration by this Congress?
   (c) Give the chief provisions of one of these measures and discuss.
10. (a) What is the industrial and educational condition of the South at present?
    (b) What investigations have recently been held along financial and commercial lines, and what conclusions do you draw from them?

## ZOOLOGY.

1. Name five men prominent because of their researches in zoology?
2. Describe the amoeba. Where may specimens be found? What specimens have you examined? Give your findings.
3. Describe the structure and habitat of the sponge, coral, jelly fish.
4. Describe the anatomy of the angle worm, the clam.
5. Give the method and history of the development of the butterfly, the frog, the dragon fly, the codling moth.
6. Name the different classes under Arthropoda and give general characteristics.
7. Give a general description of the Mollusca. Name three classes.
8. Compare plants and animals as to origin, composition, form, physiology.
9. Describe the circulatory and digestive systems of vertebrates.
10. Discuss the value of comparative zoology.

## II. Questions prepared by the State Board of Education for the State examination held at Lansing and Marquette, August 13-17, 1906.

## ALGEBRA.

1. (a) Find the square root $a \pm 2\sqrt{b}$.
   (b) Show the application of this *general* result in $\sqrt{13 + 2\sqrt{30}}$.
2. Solve: $x^4 + 2x^3 - 3x^2 - 4x + 4 = 0$.
3. Solve: $x^4 + y^4 = 272$, $x - y = 2$.
4. Solve: $7x + 12y = 220$ in positive integers, i. e., find possible integral values for $x$ and $y$.
5. Discuss the symbols, $\frac{o}{a}$, $\frac{a}{o}$, $\frac{o}{o}$.
6. Give and prove three propositions in proportion.
7. Discuss the binomial theorem developing the *general* formula, and show its application to $(2a^2 + 3b^{\frac{1}{2}})^3$.
8. What annuity will $5000 give for 6 years when money is worth 6 per cent.
9. After A had traveled 4½ hours at 5 miles an hour, B set out to overtake him, traveling the first hour 3 miles, and increasing his rate by ½ mile each hour until he overtook A. How many hours did B travel?
10. There are two sets of numbers, each consisting of three terms in arithmetical progression whose sum in each case is 15. The common difference of the first set exceeds by unity the common difference of the second set; and the product of the first set is to product of the second set as 7 is to 8. What are the numbers?

## ARITHMETIC.

1. In what grade should formal work in arithmetic be begun?
2. Outline a course in numbers for the first year's work.
3. A square cistern, the capacity of which is 420 barrels, has a depth of only ½ its width. Find its dimensions.
4. A debt of $1,650 was paid with 5½ % interest on August 30, 1905, by delivering a check for $2,316.85. At what date was the debt contracted?
5. What will it cost, at $1.15 per yard, to carpet a flight of stairs 11 ft. 4 in. high, the tread of each stair being 10 in. and the riser 8 in.?
6. What is the present trend of thought regarding method and material in arithmetic?
7. C. A. Martin, Lansing, bought of Lincoln Brothers, Detroit, Feb. 18, 1903, on account 2 %, 10 days: 1800 ft. iron pipe at 32c less 25% and 10%; 65 valves at $2, 130 elbows at 20c less 20% and 10%; 290 yd. asbestos at 54c. Find the net account of the bill Feb. 20, 1903.
8. C. H. Good & Co.'s bank account is overdrawn $7,564.19. They discount at 6% a 90 day note for $3,975.21, a 60 day note for $1,546.19, and a 20 day note for $2,546.85; proceeds of all their credit at the bank. What is the condition of their bank account after they receive credit as above?
9. Give the two notions of a fraction and show how these theories apply in division, fractions, and ratio.
10. What price must be asked for 1,000 pounds of coffee costing 18c a pound, in order that the seller may deduct 10% from the asking price for bad debts, allow 16⅔% for loss in roasting, and still gain 20% on the cost?

## BOTANY.

1. What is the nature of protoplasm? Describe the movements of protoplasm.
2. Name several substances found in cell sap. How are these detected?
3. (a) What is the natural purpose of sugar as found in the beet, corn, onion, etc.
   (b) Give a test for starch. In what form is it found in plants.
4. Describe parenchymatous tissue. What is the particular use of this tissue?
5. Give in detail the anatomy of a leaf. Name five leaf forms and name plants upon which they are found.
6. (a) Define pericarp, and name five kinds or forms.
   (b) What are accessory fruits?
7. Give a general description of each of the following: Orchid, mallow, wake robin, thistle, snowball.
8. (a) Define inflorescence, ovary, carpel.
   (b) Explain the terms apetalous, staminate, pistillate.
9. Describe bracts, scales, thorns, tendrils, buds.
10. Define morphology, ecology, histology, anatomy.

## CHEMISTRY.

1. What experimental facts lead us to select a certain numerical value characteristic for each element? Why is the term "combining weight" preferable to the term atomic weight?
2. Define allotropy; endothermic and exothermic compounds.
3. Write the formulae and briefly describe each of the following: Starch, chloroform, bichromate of potash, alum, sal ammoniac.
4. What is the relation between atomic weight and specific heat? Whose law states this?
5. Name the several compounds of sulphur and give practical uses of three.
6. What is the halogen group? What are the characteristics of each? Where found?
7. Outline the process of making white lead.
8. Give a few tests to detect the presence of iodine, nitric acid, arsenic in a solution.
9. What is the use of the Fehling solution? What is its chemical composition?
10. Explain the terms efflorescent, deliquescent, effervescence, saturation, crystalization

## CIVIL GOVERNMENT.

1. State fully how a new Constitution may be secured in Michigan.
2. Describe the system of United States Courts and their jurisdiction.
3. What county officers are required to live at the county seat? Why?

4. What are the advantages and disadvantages of the fee system?
5. What is the difference between an ambassador and a minister? What discussions for some time back have taken place regarding our diplomatic service in general?
6. Give the work of the probate judge? How is the salary determined? What is the term?
7. What agitation is there in this State at present in the matter of the election of United States Senator?
8. Show how civic and United States history may be correlated.
9. Give some practical material to be used in the teaching of civics, and show how used.

## GENERAL HISTORY.

1. Name the great religions of the world and some of the doctrines of each.
2. To whom is America indebted for contributions to her jurisprudence?
3. Give the distinguishing characteristics of Grecian and of Roman education?
4. What elements are combined in the so-called anglo-saxon language? Show how and what each gave.
5. Give a sketch of the Ottoman Empire and speak of its present condition.
6. Tell what you can of the Dreyfus case, Olympic games of 1906, coronation of King Haakon VII, Parliamentary Government in Russia, Japan and Manchuria.
7. What was the great work of Luther, Garibaldi, Peter the Great, Joan of Arc, Cromwell?
8. What results followed the Crusades?
9. Characterize the period known as the "Dark Ages."
10. Speak of "World Empires" of history and the prospects for the future.

## GEOGRAPHY.

1. Give the theories to account for the San Francisco earthquake.
2. Locate the iron regions of Michigan, and name some of the towns depending on the iron industry; same for copper. How do the iron and copper deposits of Michigan differ?
3. Upon what does the future of the southern states depend? What are the prospects?
4. Account for the location and development of Denver, Galveston, Seattle, Louisville, Cleveland.
5. What nations of Europe have controlling influence in Africa? Where and to what extent?
6. Tell of the political and social condition of the people of New Zealand.
7. What is the moral and political effect of the "Monroe Doctrine" on the South American republics?
8. Tell something of peat, glucose, jute, marl, wood alcohol, chocolate, cottolene, resin, celluloid, glue.
9. Give (a) ownership, (b) location, (c) products, (d) towns of Bahama Islands; of Bermuda Islands.
10. Describe carefully the commerce of the Great lakes.

## GEOLOGY.

1. Name the four dynamic agencies that have operated to modify the earth's surface. How do we know that the geologist's statements are true?
2. Explain rock disintegration. Give three evidences of glacial action in ages past.
3. Draw figure and explain a fissure spring, a geyser.
4. What is the present theory as to volcanoes and earthquakes.
5. (a) Describe the general continental form as to mountains, basins, etc.
   (b) Define rock and name the several classes.
6. In what classes of rock do we find fossils? Why?
7. Name the geologic eras. Give the divisions or periods of two eras.
8. Give the origin, extent, and classification of igneous rocks.
9. (a) Describe granite, gneiss, basalt.
   (b) Explain the division of igneous rocks into acidic, and basic.
10. (a) Explain formation of mineral and metal veins and beds.
    (b) Describe the fauna and flora of the carboniferous age.

## GEOMETERY.

NOTE.—1. All theorems given are to be demonstrated with proper figures.
2. All constructions are to be graphic or "line" constructions unless otherwise stated.

1. The greater of any two angles of a triangle is equal to half their sum plus half their difference, and the less is equal to half their sum minus half their difference.
2. Prove the relation of the regular inscribed hexagon to the regular circumscribed hexagon.
3. The distance between the centres of two circles external to each other is $d$, and their radii are $r$ and r respectively. Obtain a formula for their common tangent.
4. In a given circle, inscribe four equal circles of the largest possible size, and determine the ratio of their combined area to the area of the given circle.
5. Describe a circle of a given radius to touch two given lines. Show that a solution is in general impossible if the lines are parallel, but that otherwise there are four solutions.
6. (a) Given the square root of 3 to find 1.
   (b) Given the sum of two sides and the diagonal of a square, to find one side.
7. (a) Find the volume of a cube whose diagonal is $3\sqrt{3}$.
   (b) The volume of a pyramid equals the product of the altitude and a transverse section (parallel to the base) how far from the vertex?
8. Give and demonstrate the theorem with reference to the equivalency of the frustum of a triangular pyramid.
9. How many and what polyedrons are possible?
10. In two polar triangles, each angle of one is measured by the supplement of the side lying opposite to it in the other.

## GERMAN.

1. Decline the hand, a large house, this old teacher, my dearest sister.
2. (a) Compare gut, kurz, reich.
   (b) How are adverbs compared?
3. (a) Give the principal parts of rennen, wissen, thun, beilz, bleiben, weisen, steigen.
   (b) Give a synopsis of nehmen, second person singular, indicative and imperative modes, active and passive.
4. (a) What adjectives require the dative?
   (b) What prepositions take the dative case?
5. (a) How is an implied condition expressed in German? Illustrate.
   (b) Of what use is the partitive genitive? Illustrate.
6. Give five rules for order.

7–8. Translate and give construction of italicized words:

(a) "Da stand der arme Hans wie *vom* Donner gerührt, alle seine Hoffnungen waren mit *einem Schlage* zertrümmert. *Und als* es wieder still und leer war auf dem Platz, setze er sich auf die Bank, lehnte die Stirn in ausbrechendem Schmerz an *das schlanke Stämmchen* des Rosenbaumes und schluchzte laut: O mein Kaiser, mein lieber guter Kaiser, warum bist du *mir* gestorben!" Da legte sich leise eine Hand auf *seine Schulter*, Maili neben *ihm*. *Es dunkelte*, und nur vom *Wasserspiegel* des Rheins herauf schimmerte noch ein matter Wiederschein der letzten Lichtsrahlen. Es hatte ausgeläutet, die eherne Totenklage war verklungen und es war so still und ansgestorben *ringsum* in der Natur, *als* kömme es nie wieder Frühling werden."

(b) "Schrie ich den Knechten, handlich zuzugehen,
Bis dasz wir vor die Felsenplatte kännen,
Dort, rief, ich, sei das Argste überstanden—
Und als wir sie frisch rudernd bald erreicht,
Fleh' ich die Gnade Gottes an und drücke,
Mit allen Leibeskräften angestemmt,
Den hintern Gransen an die Felswand hin.
Jetzt, schnell mein Schieszzeng fassend, schwing'ich selbst
Hochspringend auf die Platte mich hinauf,
Und mit gewalt'gem Fuszstosz hinter mich
Schleudr'ich das Schifflein in den Schlund der Wasser—
Dort mag's, wie Gott will, auf den Wellen treiben!
So bin ich hier, gerettet aus des Sturms
Gewalt und ans der schlimmeren der Menschen."

9. Write in German a letter to a friend.
10. Translate:
    (a) Although our friend is rich, he is, nevertheless, unhappy.
    (b) When will I find you at home?
    (c) When the teacher comes, call me.
    (d) When I was ill, he came daily to see me.
    (e) Henry dines precisely at twelve o'clock.

## GRAMMAR.

1. Distinguish between language lessons and grammar. When in the course should the latter be given. Give reason for answer.
2. (a) Do you teach diagramming? What system? Why?
   (b) What do you secure from its use?
3. Analyze:
   (a) He stepped from behind the tree.
   (b) None knew thee but to love thee.
   (c) Over the fence is out.
   (d) We are to be judged as we judge others.
   (e) I know which book she will take.
4. What determines parts of speech? Illustrate each part of speech.
5. Define inflection, conjugation, declension.
6. Discuss and illustrate adverbial objective, nominative absolute, indirect object, objective or factitive predicate.
7. How may grammar and composition be correlated?

8–10. Discuss the nature and use of the infinitive and participle.

## LATIN.

1. Translate:

   "Magnam haec Caesari difficultatem ad consilium capiendum afferebat; si reliquam partem hiemis uno in loco legiones contineret, ne, stipendiariis Aeduorum expugnatis, cuncta Gallia deficeret, quod nullum amicis in eo praesidium videret positum esse; sin maturius ex hibernis educeret, ne ab re frumentaria duris subvectionibus laboraret."
2. Give construction of Caesari, capiendum, loco, amicis, Gallia.
3. Name the subordinate clauses, and give the construction of the verbs in each.
4. Give the infinitives, participles, gerunds, and gerundives of caveo, liceor, vendo, fero, finio.
5. Define deponent verbs, impersonal verbs, defective verbs, and give examples.
6. Give five uses of the ablative construction, three of the genitive.
7. (a) Give five uses of the infinitive in the Latin.
   (b) What is the periphrastic conjugation?
8. Give a synopsis of the verb audio.
9. Decline the following pronouns: tu, iste, quis.
10. Translate into Latin:
    (a) The soldiers marched into the river without fear.
    (b) Caesar said, Ariovistus exhorts his soldiers to fight.
    (c) Do you think the army will endure the winter?

## LITERATURE.

1. Give a graded list of classics for the first eight grades.
2. What should be the aim of the reading of classics in the grades? The aim of the study of literature in the high school?
3. Name the best novels of Dickens and give some reasons for their great popularity.
4. What influence have the works of Darwin on modern thought?
5. Name and classify the principal American authors, and give the best work of each.
6. Give a brief review of Pilgrim's Progress. Explain the allusion made recently by President Roosevelt.
7. What effect on literature does the modern increase of papers and magazines have?
8. Describe a "Miracle Play." What were "Mystery" representations?
9. Name the author of "The Song of the Shirt," "The Light of Asia," "Sohrab and Rustum," "Aurora Leigh," "Locksley Hall," "Hypatia," "Ramona," "Marco Bozzaris," "Alhambra," "Tales of a Wayside Inn."
10. Name the leading works in literature you have read.

## ORTHOGRAPHY.

1. Indicate the pronunciation of the following words: Satiety, vagary, sinecure, extol, canine, varioloid, sleek, borealis, referable, homeopathy.
2. Give three practical rules for spelling.
3. Define etymology, orthography, vowel, suffix, root word.
4. Give the origin of the following words: Macadamize, volcano, tantalize, Mosaic, Quixotic, tariff, damask, alphabet.
5. Give all the words formed from the following roots: Cor, the heart; corpus, the body; litera, a letter; pes, a foot; astron, a star; gramma, a letter; monos, sole or alone.
6. Indicate successful methods in teaching spelling.

## LIST OF WORDS.

1. exchangeable
2. freak
3. mulley
4. noisily
5. canvass
6. appal
7. memoir
8. accuracy
9. quay
10. aniline
11. fricassee
12. auger
13. rheumatism
14. saleratus
15. clique
16. wily
17. subpoena
18. mortgage
19. excel
20. chamois
21. pallid
22. negligee
23. conceive
24. bulrush
25. hoeing
26. mullein
27. lieu
28. emery
29. carat
30. sue
31. ague
32. feign
33. canon
34. separate
35. lodgment
36. hare-brained
37. crochet
38. ice-floe
39. lacquer
40. Pentateuch
41. menagerie
42. stereotype
43. pomace
44. nasturtium
45. sergeant
46. scallop
47. lapel
48. mulish
49. bluing
50. embarrass

## PENMANSHIP.

1. In what grade should the use of pen and ink begin? Give reasons for your answer.
2. Would you use print or script in teaching beginners to read? Why?
3. Give the arguments pro and con for vertical penmanship.
4. Has the use of the vertical penmanship served any useful purpose and, if so, what?
5. What will be the penmanship of the future?

## PHYSICS.

1. Define work. Name and define the different units of work.
2. How is the horsepower of an engine determined?
3. Explain as to a class weight, mass, equilibrium.
4. At what depth in water will the pressure be 1 kg. per square centimeter?
5. Determine the vibration number for each tone of a gamut the keynote of which has 261 vibrations.
6. Explain the terms diffusion, conduction, convection of heat. Explain expansion, and the coefficient of expansion.
7. Explain conjugate foci. Illustrate spherical aberration.
8. Draw and explain the working of a compound microscope.
9. Give Ohm's law. Give the mathematical relations between amperes, volts, ohms.
10. Give the laws of induced currents. Explain the construction of a commutator.

## PHYSIOLOGY.

1. What help does the State Board of Health render the schools in teaching physiology?
2. Give in detail several laboratory experiments you have tried with success in physiology.
3. What is myopia? hypernutropia? Astigmatism? Is there anything teachers can do to aid or correct these defects?
4. What can be said as to the prevalence of defective hearing, and to what causes in general is it due?
5. Name a number of poisonous plants which children should be cautioned against?
6. Speak of the value of physical education. Should that of boys and girls differ? Can there be improper muscular exercise?
7. Give a list of foods for morning, noon, and evening meals suitable for children. Explain the lists.
8. (a) What physiological changes occur at adolesence?
   (b) Why should the teacher have an intimate knowledge of the conditions of adolescence?
9. What are the relations between physical health and mental activities?
10. Upon what do the times, manner, and hours of bathing depend? What effects follow proper and improper bathing?

## RHETORIC.

1. Define description. Give suggestions as to preparation of pupils for writing.
2. Give ten suitable themes for high school pupils. Write a description of from 200 to 300 words on a theme of your own selection.
3. Define narration and make a list of its varied forms. Tell what is meant by plot unity, coherence, and climax.
4. Write a personal narrative of from 200 to 300 words.
5. What is the purpose of exposition? Give examples of its use.
6. Write an exposition of from 200 to 300 words using a theme with which you are especially familiar.
7. What is the difference between exposition and argument? Relation between inductive and deductive reasoning.
8. Make briefs for the following propositions:
   1. Term examinations should be abolished.
   2. Two sessions are preferable to one in a high school.
   3. Studies should be made elective in the last two years of the high school course.

## SCHOOL LAW.

1. Give the substance of the law relating to college and university certificates.
2. Give the law relating to duties of boards of education in graded school districts.
3. What rules and regulations may a board of education prescribe? Is there any limit?
4. (a) Give the substance of the law in regard to the teaching of effects of alcohol and narcotics, also dangerous communicable diseases.
   (b) To whom must superintendents and teachers report in regard to these matters?
5. What uses may be made of primary school interest fund? Of one mill tax?
6. Summarize the procedure in consolidating school districts.
7. Give the powers and duties of the State Board of Education.
8. How are the regents of the university elected. When and for how long?
9. Give the powers and duties of the Superintendent of Public Instruction. What is his salary?
10 Write a legal teacher's contract.

## THEORY AND ART.

1. Name all the books on education and teaching you have read. Which one impressed you most and why?
2. Give your ideas in full on punishments.
3. What is the basis of kindergarten work?
4. Name several methods of teaching beginners to read. Which one or ones do you use or recommend? Why?

5. What attention should be given to study on the part of the pupil? What do you do?
6. Discuss the subject of attention.
7. Who was Herbart? What are the essentials of his educational doctrines?
8. Interpret the following:

   "We have not taught a thing when we have presented it to the senses."—*Brumbaugh.*

   "All talk about discipline in a school is in fact mischievous."—*Fitch.*

   "The business of the teacher is to make himself useless to the pupil."—*Hinsdale.*

   "Mental action is affected by physical conditions."—*Baker.*
9. Have you ever considered the matter of waste in school work? If so, what conclusions were reached?
10. (a) Upon what is manual training based?
    (b) What work can be done when there is no manual training supervisor?

## UNITED STATES HISTORY.

1. Sketch the conditions in Europe at the time of the discovery of America.
2. Describe the civilization typified in the colony of Massachusetts; of Virginia.
3. Describe England's colonial policy during the latter part of the 18th century.
4. Tell of the New England Federation, Franklin's Plan of Union, The Stamp Act Congress, and The First Constitutional Congress.
5. Give an account of the Constitutional Convention and show how the spirit of compromise prevailed.
6. Give a brief sketch of the life of Alexander Hamilton and of his plans of finance.
7. Give a history of the negro since the war.
8. Tell of the attempts to build an Isthmian canal. What is the present idea? Why should the United States build it?
9. Name ten comparatively recent events that have historical significance.
10. Name ten men of the present in the United States whose work is that of statesmen. Show in what regard.

## ZOOLOGY.

1. What are the divisions or branches of structual zoology? Which is most important?
2. Where have you studied zoology? How much time have you given to laboratory work and demonstration? What specimens have you examined?
3. Give in detail your findings for one specimen.
4. (a) What is the basis of the classification of animals?
   (b) Give the general classification.
5. Describe the structure and habitat of the coral, starfish, crayfish.
6. Give the general description of the anatomy of the insecta. Name five species.
7. Describe the circulatory and respiratory systems of the mollusks.
8. Give the method and history of the development of the mosquito, the moth.
9. Give the special structural differences between the vertebrates and invertebrates.
10. What are the special reasons for including biology and zoology in the nature study of our schools?

# COUNTY EXAMINATIONS.

---

## I. Questions prepared by the Superintendent of Public Instruction for the regular examination, June 21–23, 1906.

### ALGEBRA.

#### First Grade.

1. (a) Factor three algebraic quantities, each of which shall show a different principle of factoring.
   (b) Find the L. C. M. of the quantities factored above.
2. Give your method of teaching one of the following:
   (a) Clearing of fractions.
   (b) Transposition of terms.
   (c) Subtraction.
3. (a) Give general form of (*a*) pure quadratic equation, (*b*) affected quadratic.
   (b) When are the two roots of an affected quadratic equation equal?
4. Discuss the theory of fractional exponents.
5. Reduce $\sqrt{56 + 32\sqrt{3}}$.
6. Find two numbers such that their sum, their product, and the sum of their squares are all equal.
7. If a carriage wheel $14\frac{2}{3}$ ft. in circumference takes one second longer to revolve, the rate of traveling will be $2\frac{2}{3}$ miles less per hour. How fast is the carriage traveling?
8. Divide $700 among three persons so that the first shall receive $300 more than the third, and the share of the second shall be a geometrical mean between the shares of the first and third.
9. Find the fifth term of $(x-2y)^{12}$.
10. (a) Show that $(\sqrt{-1})^{4n+2} = -1$.
    (b) Solve the following:

$$\frac{\sqrt{4x+3} + 2\sqrt{x-1}}{\sqrt{4x+3} - 2\sqrt{x-1}} = 5.$$

#### Second Grade.

1. Find the L. C. M. of $a^4 - a^2 + 1$, $a^6 + 1$, $a^4 + a^2 + 1$, and $a^2 - 1$.
2. Simplify

$$\frac{6a - 1 - \frac{1}{a}}{\frac{2a-1}{3a}}.$$

3. Solve the following:
   $6x^2 + 5x - 11 = 0.$
   $x^4 + x^3 - 21x^2 - x + 20 = 0.$
4. Find the square root of
   $1 + 6x + 15x^2 + 20x^3 + 15x^4 + 6x^5 + x^6.$
5. A man rows downstream at the rate of 6 miles an hour and returns at the rate of 3 miles an hour. How far down stream can he go and return in 9 hours?
6. (a) A can do a piece of work in *a* days, and B in *b* days. In what time can they do the work working together? If $a = 10$ and $b = 15$, what would be the result?

7. If 1 is added to each term of a fraction, its value will be ⅔; if 1 is subtracted from each term of the fraction, its value will be ½. What is the fraction?
8. Prove the following:

$$\text{(a) } x^0 = 1, \quad \text{(b) } x^{-3} = \frac{1}{x^3}, \quad \text{(c) } 8^{\frac{2}{3}} = 4.$$

9. A party had a dinner that cost $60. If there had been 5 persons more, the share of each would have been $1 less. How many persons were there in the party?
10. A picture that was 8 inches by 12 inches was placed in a frame of uniform width containing as much surface as the picture. What was the width of the frame?

## ARITHMETIC.

### First and Second Grades.

Applicants for second grade answer the first ten questions; for the first grade, the last ten.

1. Make a bill of the following items and receipt the same: 6 pieces 2 x 4, 16 ft. long; 3 timbers 8 x 10, 30 ft. long; 12 boards, 16 ft. long, 10 in. wide, at $12.00 per thousand.
2. At $2.75 a cord what is the value of a pile of stove wood 22 ft. long, 6 ft. high at one end and sloping uniformly to 5 ft. high at the other end?
3. A cubic foot of water weighs 1,000 oz. The specific gravity of gold is 19.4. At $20 an ounce what is the value of a gold brick 8 x 4 x 2 inches?

Indicate operations with proper numbers.

4. If a pound of tea is worth ¾ of a pound of coffee, and ⅔ of a pound of coffee is worth 23⅓ cents, what is a pound of tea worth?

Analyze.

5. Which is better: U. S. 5's @ 98¼ % or U. S. 6's @ 108⅞%, brokerage ¼% in each case?

Analyze.

6. A man bought a watch at 20% less than its value, and sold it at 20% more than its value. What per cent did he gain?

Analyze.

7. Make a promissory note for $300.00 at the legal rate of interest, dated January 1, 1906, and for such a time as will be necessary to make the amount of the note $369.72.

Note.—Give 4 credits for an absolutely correct form, and 6 credits for correct time.

8. Find the longest line possible in a room 12 ft. long, 9 ft. wide, and 10 ft. high.
9. A man sold two horses at the same price, gaining on the two $60.00 He lost, however, 25% on one and gained 25% on the other. What did each horse cost?
10. Two-thirds of John's age equals ¾ of William's: What is the ratio of John's age to William's? Of Williams' age to John's?

Analyze.

11. A farm changed hands four times, the first and third sellers gaining 10% each, the second and fourth losing 10%. It happened that the last buyer was the first seller and that he paid $23.88 less than he had received for it. What did each man pay for the farm?
12. The wheels of a bicycle are 26 inches in diameter, the pedal sprocket wheel has 24 sprockets, the other has 8 sprockets. How many miles an hour does the rider make who pedals one revolution each second?
13. What is the market price of 5% bank stock which yields 6% interest after an income tax of 3% has been paid?
14. A man digs a well 6 ft. in diameter and 30 ft. deep, "stoning it up" so as to leave an opening 2 ft. in diameter. How many cords of stone were used?

Indicate necessary operations with proper numbers and signs without computing

15. If goods had cost me 50% less my gain would have been six times as much. What did I gain?

### Third Grade.—Both Classes.

1. Give the principles of division and show how each applies in fractions.
2. (a) Write the present year in figures, in letters, and in words.
   (b) Write in words 12,987,659,000,014.

Note.—Examiner make no allowance for omissions of any proper marks.

3. Define multiple, common multiple, greatest common divisor, prime number, cancellation.
4. A man received $25.00 for 2,700 pounds of wheat, $36.00 for 3,900 pounds, $42.00 for 4,500 pounds. What was the average price per bushel?
5. By what number must 14,212 be divided so that the result may be as much above 692 as it is below 804?
6. A and B can together earn $100 in ¾ the time that A can earn it alone. How long for A to earn it if B can earn it in 60 days?

Analyze.

7. The difference between ½ and ⅓ of a number is 6 less than ¼ of the number. What is the number?
8. (a) Give table of square measure, avoirdupois weight.
   (b) How many feet in the following: 180 rds., 22 yds.; 3 mi., 55 in.; 16 hands; 12 ch., 15 l.?
9. Make an itemized receipted bill for not less than five articles purchased at a grocery store.
10. What will it cost to plaster a room 26 ft. long, 18 ft. wide, and 9 ft. high, at 28c. per sq. yd., allowing for half of 3 windows 6 ft. by 4½ ft. and 2 doors 7 ft. 8 in. by 2 ft. 8 in.?

## MENTAL ARITHMETIC.

### All Grades.

NOTE.—(1) Distribute these lists among all the applicants, placing them face down upon the desks.
(2) Each applicant write his number or name across the back of the list.
(3) At a signal from the commissioner, all reverse the papers and in the *right-hand margin* write as many answers to the questions as possible in 15 *minutes*.
(4) At the second signal, all again reverse the papers when they will at once be collected by the examiners.

Give *one credit* for each correct answer written, making 20 credits for this part of the examination.

1. How many 9's in ⅔ of 9, ⅓ of 9, 2⅓ times 9, and 1⅓ times 9?
2. Find the sum of the sum and difference of ⅓ and ⅔.
3. Two-thirds of 12 is ⅘ of how many times 2?
4. Add 50% of a quart to 12½% of a peck.
5. Find the cost of 75 acres of land at $75 an acre.
6. Sold pencils costing 1⅓ cents for 4 cents. What was the per cent of gain?
7. A man sells 50 lbs. of potatoes costing 24 cents a bushel for 40 cents. What is his gain per cent?
8. How many oz. in 75 lbs.?
9. A cuts a cord of wood in 4 hrs, B in 8 hrs. How long together to cut one cord?
10. What is the time when the time past noon equals the time to noon again?
11. Ten % of 4 is what per cent of 10 × 4?
12. What part of ⅓ is ⅔?
13. $\sqrt{5 \times 6 \times 10 \times 12} = ?$
14. How many times can 2½ be taken from 25?
15. What part of 33⅓ is 8⅓?
16. Divide 500 by 62½.
17. Multiply 75 by 15.
18. What will 4 gallons of oil cost at 20 cents for 1¼ gallons?
19. What cost 9 doz. spoons at 50 cents for 6?
20. If 6¼ tons of hay cost $61.25 what will 25 tons cost?

## BOTANY.

### First Grade.

1. Outline a laboratory study of buds. Name and describe the different kinds of buds.
2. Outline a laboratory study of roots. Give the functions of roots.
3. Describe a herbaceous stem. Name and describe the different kinds of stems.
4. Name the different flower clusters and describe two.
5. Give the general morphology of the flower.
6. Define receptacle, perianth, cotyledon, ecology.
7. Give the different means by which pollination is accomplished. Name a flower which illustrates each.
8. Explain the terms epipetalous, hypogynous, perigynous, epigynous, gynandrous as applied to stamens.

9. Name a plant belonging to each of the following families: Liliaceae, Iridaceae, Caryophyllaceae, Ranunculaceae, Cruciferae, Leguminosae, Labiatae, Compositae.
10. Name five kinds of plant tissue and describe each.

### Second Grade.

1. Name the parts of a plant. What is a flower?
2. Define stem, cotyledon, regular, complete, akene.
3. Give the characteristics of the hepatica, clover, dandelion.
4. Name five leaf forms, and name a tree bearing each.
5. Name three kinds of fruits and describe each.
6. Define legume, follicle, samara, capsule.
7. Name the parts of a complete flower and give function of each.
8. Name ten wild flowers found in your vicinity during May and June.
9. Outline a plan for making a school herbarium. Have you tried it in your school?
10. Define and give examples of cyme, spike, umbel, raceme, catkin.

## CIVIL GOVERNMENT.

### First and Second Grades.

Applicants for second grade, answer first ten questions; for first grade, last ten.

1. What is the difference between a petit jury and a grand jury?
2. Taxes:
    (a) Who assesses the taxes in a township, in a county, in the State?
    (b) If a person refuses to pay his taxes, what is done?
3. The legislature:
    (a) How chosen, (b) its composition, (c) its sessions, (d) salary, (e) presiding officers.
4. (a) When was the present State Constitution adopted?
    (b) Mention a recent amendment to it.
    (c) Is it likely to be amended again soon?
5. (a) Mention the prohibitions upon Congress.
    (b) Why are they deemed necessary?
6. Outline all the various steps in the election of President.
7. (a) How may the Constitution of the United States be amended?
    (b) How many amendments have been made?
    (c) Give substance of the last three.
8. How and when are the presiding officers of the following courts chosen:
    (a) Justice court, (b) circuit court, (c) probate court, (d) State Supreme Court.
9. Naturalization:
    (a) Give the various steps.
    (b) In what cases can some of these steps be omitted?
10. (a) Name the various State boards.
    (b) Give duties of one of them.
11. (a) What called for the First Continental Congress?
    (b) What did it do?
    (c) What occasioned the Second Continental Congress?
12. The Constitutional Convention:
    (a) When was it called?
    (b) What compromises were necessary to its success?
13. Discuss the first power of Congress:
    (a) With reference to its priority.
    (b) With reference to its variety of application.
14. (a) What are the principal powers of the President?
    (b) Which of these powers give him most political influence?
    (c) Should the President use his power to coerce Congress? Give reasons for answer.
15. (a) What are the various executive departments?
    (b) Mention the bureaus of one of these departments and the duties of each.

### Third Grade.—Both Classes.

1. The county officers:
    (a) Give term of office and salary of each.
    (b) Give duties of the prosecuting attorney.
2. How are the county poor provided with the necessities of life?

3. State five facts with reference to the office and duties of county commissioner of schools.
4. The city:
    (a) Mention some particulars in which a city differs from a village.
    (b) Who is the chief executive, and what are some of his duties?
5. (a) What are the city departments?
    (b) Give duties of one of them.
6. What are city ordinances? By whom passed?
7. The State:
    (a) How many legislators?
    (b) When and for how long elected?
    (c) Salary of each.
8. The governor:
    (a) Qualifications.
    (b) Salary.
    (c) Duties in general.
9. The State judiciary:
    (a) Name the various divisions.
    (b) Name the present judges of the Supreme Court, their terms of office, and salaries.
10. Education:
    (a) Who has control of the State University?
    (b) Who is its president?
    (c) Who has control of the State normal schools?
    (d) Where are they located?
    (e) Who is at the head of the Michigan Agriculutral College?

## STATE COURSE OF STUDY.

### All Grades.

1. Outline the fourth grade work.
2. Give general plan suggested for teaching beginners to read.
3. Discuss the teaching of diacritics from your own point of view, and state wherein you differ from the Course of Study.
4. When is a text-book recommended in (a) arithmetic; (b) physiology, (c) geography?
5. Mention some of the suggestions given with reference to story-telling.
6. Outline the work suggested for ninth grade in rural schools.
7. Make a synopsis of the "suggestive order" in nature work given in the introduction.
8. Give four of the eight principles of Pestalozzi mentioned.
9. Where is the study of United States history placed, and what preparatory work is recommended?
10. State the suggestions with reference to civics in the seventh grade.

## GENERAL HISTORY.

### First Grade.

1. (a) Give a brief sketch of the history of Morocco.
    (b) What was the result of the conference at Algeciras and how is this liable to affect the political condition of Europe?
2. (a) What is arbitration?
    (b) Discuss arbitration and its progress nationally and internationally.
3. What is the place and purpose of mythology in the high school course?
4. Give an account of the war between Cæsar and Pompey and its results.
5. Give an account and the results of the trouble between Mary, Queen of Scots, and Elizabeth.
6. How did the first crusade affect Europe politically? Religiously?
7. (a) When and how was the union of church and state effected in France?
    (b) What is the condition of church and state in France today?
8. What is the present policy of Great Britain towards Ireland? India? Canada?
9. Give the three most important steps which ended in granting constitutional liberty to Englishmen. Why do you consider them important?
10. (a) What constitutional rights have been granted the Russians? What is the effect?
    (b) Name some prominent Russians of today.

### Second Grade.

1. Who were the Gauls and what was their influence upon Roman life and civilization?
2. Describe the feudal system. How, when, and for what reasons was it overthrown?
3. (a) What was the Diet of Worms?
   (b) Mention some things which acted as a check upon the Reformation. How?
   (c) Of what significance was the Peace of Augsberg?
4. (a) Describe France under the Directory.
   (b) What was the effect of the battle of Austerlitz?
5. What did Philip II. do for Spain?
6. Give the effects upon Germany of the Thirty Years' War.
7. Write a sketch of the life of Oliver Cromwell and state his influence upon England politically.
8. Give an account of the English Revolution of 1848 and state what reforms resulted.
9. What political, industrial, and other conditions in Russia hinder the establishment of constitutional government?
10. (a) What is the present policy of Great Britain toward Ireland? India? Canada?
    (b) Name five English statesmen of the past half century and make a statement regarding the services of each.

## GEOGRAPHY.

### First and Second Grades.

Applicants for second grade answer first ten questions; for first grade, last ten.

1. Name three of the chief agricultural products of Germany, Russia, India, Australia, South Africa.
2. Describe the growth and culture of coffee and name the countries which export it.
3. (a) What adjustment of government has been made in Norway and Sweden?
   (b) Give the results of the Algecirás conference.
4. How has the boycott of American goods affected our trade in the Orient?
5. Name the chief manufactured products in Massachusetts, Maryland, Ohio, Illinois, Washington.
6. Name the countries that produce cotton and name five articles manufactured from cotton.
7. Define continental and oceanic islands and give two examples of each.
8. Define and locate a plateau, a barren reef, a volcano, a noted glacier, a flood plain.
9. Name the river systems of Europe, give peculiarities of each, direction of slope, approximate area of drainage, climate, and productions.
10. Describe the mountain systems of Asia. How do they compare with those of North America?
11. Give latitude and longitude of Detroit, New York, San Francisco, Paris, St. Petersburg, Rio de Janeiro, Buenos Aires, Panama canal.
12. Name five exports from the United States to Germany and five imports to the United States from the Philippines.
13. Name the seaport cities of Europe from which steamship lines to the United States are in operation.
14. Which states of South America are making the most rapid development in agriculture, in manufactures, in transportation, in education?
15. Describe the culture, manufacture, and uses of the following textiles: flax, hemp, silk. Name the countries that furnish the world's supply.

### Third Grade.—Class B.

1. Define continental divide, plateau, river system, lake, cape, bay, and locate one of each.
2. Define rock folds, deltas, glaciers, volcanoes, valleys.
3. Briefly describe the recent eruption of Mt. Vesuvius. Locate it accurately.
4. Describe the surface and slopes of the Upper Penisula.
5. Name the river basins of the Lower Peninsula and describe the characteristics of each.
6. Name the counties of Michigan in which copper mines are in operation, iron mines, coal mines, salt wells, stone quarries.
7. Name ten railroads of Michigan. Name the one nearest your home, give its termini, and state over what road or roads you could ship a carload of goods from your home to Detroit.
8. Name and locate ten cities of Michigan.

9. Locate the State normal schools, the industrial school for boys, the industrial school for girls, the State public school for dependent children, the school for the blind, and the school for the deaf.
10. Name a city in which each of the following are manufactured: plows, stoves, threshers, furniture, buggies, automobiles, railroad coaches, land plaster.

### Class A.

1. Outline a lesson for study of a mountain, an island.
2. Give four uses of the globe for lower grades.
3. How do you unite nature study with geography?
4. Do you require written descriptions below the fourth grade? Why?
5. Name the river basins of the Lower Peninsula, and describe the characteristics of each.
6. Name the counties of Michigan in which copper mines are in operation, iron mines, coal mines, salt wells, stone quarries.
7. Name ten railroads of Michigan. Name the one nearest your home, give its termini, and state over what road or roads you could ship a carload of goods from your home to Detroit.
8. Name and locate ten cities of Michigan.
9. Locate the State normal schools, the industrial school for boys, the industrial school for girls, the State public school for dependent children, the school for the blind, and the school for the deaf.
10. Name a city in which each of the following are manufactured: plows, stoves, threshers, furniture, buggies, automobiles, railroad coaches, land plaster.

## GEOMETRY.

### First Grade.

1. (a) What faculties should be developed by right study of geometry?
   (b) How do you prevent students from simply committing demonstrations to memory?
2. Define and illustrate the following: plane, perigon, secant, reflex angle, theorem.
3. A line bisecting the vertical angle of a triangle divides the base into segments proportional to the adjacent sides. Demonstrate.
4. Show by demonstration the ratio of the altitude of an inscribed equilateral triangle to the radius of the inscribed circle.
5. Inscribe a pentagon in a circle and show by demonstration the relation of one side to the radius of the circle.
6. State without demonstration the measure of the angles made by the following lines:
   (a) Two secants.
   (b) Two chords within a circle.
   (c) A tangent and a secant.
   (d) Two tangents.
7. Construct a triangle one-third as large as a given triangle.

Note.—All constructions must be by lines accurately made and not approximate algebraic constructions.

8. Construct a square the sum of whose side and diagonal is 4 inches.
9. Show the area of a regular inscribed dodecagon in terms of the radius.
10. Using line segments extract the square root of 12. Prove the work.

## GRAMMAR.

### First and Second Grades.

Applicants for second grade answer first ten questions; for first grade, last ten.

1. Define concrete, collective, and abstract nouns. Give examples.
2. Give four rules for the use of the possessive sign and illustrate each.
3. Explain as to a class the conjunctive adverb, the relative pronoun.
4. What are the inflections or properties of the verb? Define each.
5. Explain and illustrate the active and the passive voice.
6. What tenses are used in the subjunctive mode? Give sentences to illustrate each.
7. Explain and illustrate the infinitive in *ing*. How can we determine when the form in *ing* is a gerund, a participle, an abstract noun?
8. (a) Distinguish between an indirect object and an adverbial objective.
   (b) What verbs take the indirect object; the objective complement?
9. Define adjective and adverbial modifiers. What are the equivalents of each?

10. Analyze: I knew him to be in error when he said, "The money is mine"; and because of the expense, I decided to make him no trouble.
11. Explain the "infinitive mode."
12. Name five standard authors in grammar and state how each treats the subject of verbals.
13. In analyzing complex sentences do you use the terms "independent and dependent," or "principal and subordinate?" Why?
14. Discuss the uses of *shall* and *will*, *may* and *can*.
15. Explain what is meant by primary and secondary tenses.

### Third Grade.—Class B.

1. Define a paragraph. Write a sample paragraph on any topic you may choose.
2. Name the parts of speech and define parsing.
3. Parse the italicized words in the sentence: *That* horse of *yours* is *known to be* a *very* unruly *animal*.
4. Name and define the classes of common nouns.
5. Define number and illustrate five different ways of forming the plurals of nouns. Give the rule governing each.
6. (a) Give three ways of showing the gender of nouns.
   (b) Define case.
7. (a) Give and illustrate three ways in which a noun may be in the nominative case.
   (b) Give and illustrate four ways in which a noun may be in the objective case.
8. (a) Give five substitutes for nouns.
   (b) How would you teach the agreement of subject and verb in the third and fourth grades?
9. Name the classes of pronouns. Decline I, who.
10. (a) Define voice, mode, tense.
    (b) What tenses are used in the subjunctive and what in the imperative mode?

### Class A.

1. Define a paragraph. Write a sample paragraph on any topic you may choose.
2. Name the parts of speech and define parsing.
3. Parse the italicized words in the sentence: *That* horse of *yours* is *known to be* a *very* unruly *animal*.
4. Outline a language lesson on the "maple leaf."
5. In what grades would you begin to teach technical terms of grammar? Why?
6. Write a short story on "The Robin."
7. How much punctuation and what do you teach in first three grades?
8. (a) Give five substitutes for nouns.
   (b) How would you teach the agreement of subject and verb in the third and fourth grades?
9. Name the classes of pronouns. Decline I, who.
10. (a) Define voice, mode, tense.
    (b) What tenses are used in the subjunctive and what in the imperative mode?

## ORTHOGRAPHY.

### All Grades.

Applicants for second grade answer first five questions; first grade, last five; third grade, any five.

1. Mark the following diacritically giving the names of the different marks used:

> "When heroes are as countless as the flames;
> When sympathy," said he, "has opened wide
> A hundred million generous human hearts,
> I know this world is infinitely blessed."

2. With what divisions of the dictionary should eighth grade pupils be familiar? Third grade pupils?
3. State three uses of silent letters.
4. Define and illustrate syllabication, accent, aphthong, a vocal, a vowel, primary accent.
5. (a) Give three suffixes which may be added to nouns to make them diminutive in meaning. Give examples.
   (b) Name three adjective suffixes meaning "full of" and give examples.
   (c) What prefix means not, half, from, against, instead of?

6. (a) Explain the difference between a living language and a dead one?
(b) Name five words added to our language during the past decade.
(c) Mention five things which are causing the English language to grow.
7. What are the distinguishing characteristics of the Anglo-Saxon element in the English language?
8. Explain the difference between analyzing a word and giving the etymology of a word. Analyze patrimony, intrigue, disorder; give the etymology of aristocracy, maternal, philology.

## LIST OF WORDS.

### All Grades.

1. diameter
2. multiplying
3. collateral
4. absence
5. etymology
6. lecturer
7. consequence
8. Syracuse
9. solder
10. tundras
11. tarlatan
12. Venezuela
13. antennæ
14. complement
15. languor
16. pulmonary
17. catastrophe
18. Algeciras
19. champagne
20. tonsil
21. incandescent
22. sergeant
23. mimicker
24. sorghum
25. asphyxia
26. diagram
27. Evangeline
28. phlox
29. Colombia (S. A.)
30. industrious
31. gymnastics
32. moccasin
33. populous
34. Los Angeles
35. buoyant
36. diary
37. qualify
38. pharmacy
39. Stockholm
40. masquerade
41. premium
42. wreathe
43. diacritic
44. Dowagiac
45. restrictive
46. binomial
47. heirloom
48. colonize
49. earthquake
50. Ontonagon

## PHYSICS.

### First Grade.

1. Briefly explain the operation of the wireless telegraph.
2. Give an experiment to show current direction.
3. (a) Explain the terms ohm, volt, ampere, coulomb, watt.
(b) Give Joule's law.
4. A small object is 10 inches from a lens; the image is 20 inches from the lens on the opposite side. Determine by construction the focal distance of the lens.
5. Explain the cause of refraction, and of total reflection.
6. (a) Give the law of plane mirrors, of concave mirrors.
(b) Explain the photometer.
7. Give the laws of ebullition. The laws of fusion.
8. (a) Discuss the velocity, reflection, and refraction of sound.
(b) Explain relation of intensity to amplitude; intensity to distance; intensity to area.
9. (a) What is the relation of volume to pressure in gases? How shown?
(b) Give Boyle's law.
10. (a) What is the rule for computing weight or power with several movable pulleys.
(b) Explain the centers of suspension and oscillation in pendulums.

### Second Grade.

1. Name the properties of matter. Give the laws of motion.
2. Explain and illustrate the three classes of levers.
3. Define pneumatics, hydraulics, specific gravity, lens, electrification.
4. Make and solve a problem involving the wheel and axle.

5. Draw figure and explain the lifting pump.
6. What kind of lens should be used by near sighted persons? Why?
7. Explain the construction of the Leyden jar and what is meant by charging it?
8. What is the general law of plane mirrors, of convex mirrors?
9. Give the laws for the vibration of strings.
10. Explain the terms conductor, insulator, electric field, induced currents, electrical potential.

## PHYSIOLOGY.

### First and Second Grades.

Applicants for second grade answer first ten questions; for first grade, last ten.

1. Locate the tonsils, appendix, peritoneum, iris, aorta, and give functions of each.
2. Describe fully the construction of a muscle.
3. What is a food? Classify ten foods most suitable at this season. Give reasons for selection.
4. Classify tissues.
5. (a) Why is a sprain often worse than a broken bone?
   (b) Describe the thorax.
6. Why is it necessary to regulate the temperature of the body? How is it regulated?
7. What things should be taught and observed regarding the hygiene of the eye, with reference to light, condition of eyes, position of work, etc.?
8. (a) What injuries result from smoking tobacco which do not result from chewing it?
   (b) Mention five subjects discussed in the Teachers' Sanitary Bulletin during the past year.
9. (a) What class of nerves controls the muscles of the arm, the face, the special senses, the organs of digestion?
   (b) What do you understand by the word "pain?" What is its purpose?
10. Make a drawing of the heart, state its functions, and name all the parts.
11. Explain as to a class the causes of bad breath; furred tongue.
12. What qualities and properties of the body tend to destroy harmful bacteria and germs?
13. Describe fully all of the vertebrae.
14. (a) What is an emergency?
    (b) Mention six emergencies that may occur in school which every teacher should be able to meet.
    (c) Give the essential treatment for two of the emergencies named.
15. (a) Describe cells and cellular growth.
    (b) State the essential difference between a plant cell and an animal cell.

### Third Grade.—Class B.

1. (a) What is the purpose of white corpuscles? Plasma?
   (b) Describe the portal circulation.
2. Outline the nervous system.
3. (a) How do you explain to a class that, although both alcohol and bread are made by fermentation, one is harmful and the other is not?
   (b) How would you disinfect the school room after an epidemic?
4. Mention some common deformities of bones easily produced. How may they be corrected?
5. (a) Where and how is digested food taken into the blood?
   (b) Where and how is food taken up by the tissues.
6. (a) Describe cartilage.
   (b) What membrane surrounds the heart, lungs, bones?
7. State the things necessary to observe in bathing.
8. What is the purpose of excretion and how is this accomplished?
9. Mention three common forms of poisoning and give the treatment necessary in each case.
10. State the things which should be taught and observed regarding the hygiene of the eye.

### Class A.

1. (a) What is the purpose of white corpuscles? Plasma?
   (b) Describe the portal circulation.

2. What immediate effects make one think that alcohol is beneficial? What effects which follow prove that it is not?
3. Mention some common deformities of bones easily produced. How may they be corrected?
4. (a) Where and how is digested food taken into the blood?
   (b) Where and how is food taken up by the tissues?
5. What is the purpose of excretion and how is this accomplished?
6. How would you care for a slight cut? A slight burn? A broken arm?
7. State the things necessary to observe in bathing.
8. Why does a child require more sleep than an adult?
9. Mention three common forms of poisoning and give the treatment necessary for each case.
10. Explain the difference in the structure and functions of veins and arteries.

## READING.

### All Grades.

Answer ten questions including those marked *.

### "Hamlet."

1. Give a brief outline of the entire play.

*2. What were Hamlet's moral, religious, and mental qualities?

*3. (a) How was Hamlet apprised of the manner of his father's murder?
   (b) What proof had he of the king's guilt?
   (c) Had Hamlet murdered Claudius would he have had satisfactory revenge? Why? What kind of revenge did he seek?

4. What customs of the times brought the players to Castle Elsinore.

5. (a) What was Hamlet's purpose in presenting the "Mouse Trap?"
   (b) Was this purpose accomplished? How?

*6. (a) What was Hamlet's condition when the king left the play?
   (b) What discoveries had the king made during the presentation in regard to Hamlet? In regard to himself?

7. Why did Claudius wish to have all believe that Hamlet's madness was very real and very dangerous?

8. (a) What was Hamlet's attitude toward his mother? Why?
   (b) State the purpose of the prince in "speaking daggers" to her. Was this accomplished? Give reasons for your answer.

9. In the scene between Hamlet and his mother what was the effect of the ghost's entrance?

*10. (a) Did Hamlet intend to kill Polonius? What was his attitude toward the taking of human life? Give reasons for your answer.
   (b) What catastrophies followed as a direct result of this murder?

11. (a) What was Hamlet's purpose when he rushed in upon the king at prayer?
   (b) Do you think that his action at this time displayed weakness or self control? Sustain your opinion.

*12. Quote Hamlet's soliloquy. Mention some other famous passages in this act.

13. (a) Name some great actors and actresses of the past century who have gained fame in presenting this play.
   (b) Give the names of three great Shakespearean critics. Which have you read regarding this play?

14. What can you say of the literary merit of this tragedy?

## SCHOOL LAW.

### All Grades.

1. Name the apparatus which the director is required by law to procure for the school.
2. When and why is the school census taken?
3. Give the law (a) in regard to payment of institute fees, (b) for attendance at institutes.
4. For what purposes may a district vote taxes?
5. Give eight duties of the county commissioner of schools.
6. How is a school district library legally established?
7. Give the duties of the teacher in the enforcement of the truancy law.
8. If a school board fails to execute a written contract before time for school to begin, what should the teacher do?

## THEORY AND ART.

### All Grades.

Applicants for second and third grades answer first ten questions; first grade, last ten.

1. Give five mistakes often made by teachers.
2. Is a teacher ever justified in asking "leading" questions, or in helping pupils to answer? Explain.
3. Name the mental faculties. Define each.
4. Describe what you consider to be the ideal physical conditions of a school room.
5. What are the two chief factors in attention?
6. Why should the teacher concentrate the attention of the pupils upon *a few* points in each lesson?
7. Do you teach the multiplication table? Why?
8. Name five proper school incentives.
9. In what subjects do you seek to train the powers of observation? Of memory?
10. Which is most essential in the lower grades, that the child learn the *fact* or the *reason*? Why?
11. In what order are the mental faculties developed? What does this mean to the teacher?
12. Define perception, imagination, judgment.
13. What are the laws of association, and what has association to do with memory?
14. How are judgments formed? What things may affect the formation of a correct judgment?
15. How can the teacher secure correct and clear conclusions or judgments in his pupils?

## UNITED STATES HISTORY.

### First and Second Grades.

Applicants for second grade answer first ten questions; first grade, last ten.

1. What are the essentials of a good history recitation.
2. State the importance of the Mississippi Valley in the Civil War and the result of the campaign there.
3. How did the French Alliance in 1778 affect the Revolution?
4. (a) What were the Townshend Acts and the result of the attempt to enforce them?
   (b) What is the meaning of "right of search?" How and with what result did the British defend this right?
5. Compare the government of the Massachusetts colony with that of the Virginia colony.
6. Give an account of the war with Tripoli. What were the effects?
7. (a) Why were compromises in the slavery question desirable?
   (b) What territory was acquired as a result of the Mexican War and how did this affect the cause of slavery?
8. When and how did the United States gain control of the Panama canal zone? How is it governed? Of what importance is it?
9. (a) Mention three important measures passed by the present Congress.
   (b) Mention three other important measures discussed by them.
   (c) What is the Interstate Commerce Commission and why is it necessary?
10. (a) Mention three new lines of education of the past twenty years.
    (b) Mention three great engineering enterprises of the past quarter of a century.
    (c) Make a statement regarding Luther Burbank, George F. Baer, Booker T. Washington, William R. Harper, Jane Addams.
11. What period in United States history is known as the Critical Period? Name three prominent statesmen of this period and state what services each performed.
12. Mention three charges made against the King of England in the Declaration of Independence and give dates and facts which prove these charges.
13. (a) What territory constituted New France?
    (b) Give an account of the Toledo War.
14. What companies were formed in the Old World for the exploration and colonization of the New World? State fully what these companies accomplished.
15. Discuss the memorizing of history.

### Third Grade.—Both Classes.

1. Upon what did France base her claims to the Mississippi Valley? When and how was the controversy settled?

2. (a) When and where was the first settlement made in Michigan?
   (b) Name three men who explored Michigan previous to 1750 and give the results of each expedition.
3. (a) What nations of Europe explored the New World in the sixteenth and seventeenth centuries? Name some representatives of each nation who conducted these expeditions.
   (b) What conditions in each nation made these expeditions desirable?
4. Compare the settlement, growth, and government of the Massachusetts colony with the New York colony.
5. When and how did Alaska become a part of the United States? When did Florida cease to be a Spanish colony?
6. What is the present policy of the United States regarding territorial expansion?
7. What territory (excluding any already given) has been acquired since 1845, what questions were involved in each acquisition, and in each case what was the value and importance of the territory thus gained?
8. (a) Name three important inventions that have revolutionized each of the following: Agriculture, commerce, and industrial life.
   (b) Give the names of five men prominent in our national commercial life and five who are prominent in our industrial life.
9. Name three problems of our present industrial life and discuss one of these.
10. Compare the commercial condition of the United States in 1850 with that of the present time.

## II. Questions prepared by the Superintendent of Public Instruction for the regular examination, August 9-11, 1906.

### ALGEBRA.

#### First Grade.

1. Define and illustrate the various kinds of equations.
2. (a) c: d:: e: f; show that c + d: c — d:: e + f: e — f.
   (b) Given first term, ratio, and number of terms, to develop the formula for finding the sum of the series.
3. Insert two geometrical means between 8 and 125.
4. Express graphically the following: $\sqrt{5}$; $\sqrt[3]{8}$; $1 + \sqrt{2}$
5. Discuss surds.
6. The perimeter of a rectangular field is 168 rods, and the area is 9 A. How long is the field?
7. A travels north and B east from the same place at the rate of 3 and 4 miles per hour respectively. In how many hours will they be 50 miles apart?
8. Solve the following:

   (a) $$\frac{2x + \sqrt{4x^2 - 1}}{2x - \sqrt{4x^2 - 1}} = 4.$$

   (b) $$\sqrt{2x + 3} - \sqrt{x + 1} = \sqrt{5x - 14}$$
9. By lowering the price of apples one cent a dozen, 60 more can be sold for 60 cents than at the former price. What was the former price?
10. Discuss the binomial theorem and deduce a formula for writing the 5th term.

#### Second Grade.

1. Divide $a^3 - b^3$ by $a^{\frac{1}{2}} - b^{\frac{1}{2}}$.
2. (a) Give the signs of aggregation.
   (b) Give and explain the law of signs in multiplication and division.
3. (a) Discuss factoring.
   (b) Factor the following quantities:
   $6 - 5a + a^2$; $24 l^2 + 18 l + 3$; $a^3 - 4a^2 + a + 6$.
4. Find three numbers whose sum is $c$, the second being $a$ times the first, and the third being $b$ times the second.

5. Find the value of the unknown quantities in the following:

$$\begin{cases} v + x = 2a. \\ x + y = 2a - z. \\ y + z = a + b. \\ v - z = a + c. \end{cases}$$

6. When a certain number expressed by two digits is divided by the sum of its digits, the quotient is 8; and when the first digit is diminished by 3 times the second the remainder is 1. What is the number?
7. A man paid a bill of $16 with 80 coins consisting of 5 cent and 25 cent pieces. How many of each did he use?
8. A man sold a watch for $11 gaining a per cent equal to the number of dollars the watch cost him. What was the per cent of gain?
9. Solve the following:

$$x^4 + 13x^2 + 36 = 0.$$

10. Write the fifth term of the sixth power of 3a + 2 b, and give the formula for the same.

## ARITHMETIC.

### First and Second Grades.

**Applicants for second grade certificate answer the first ten questions; first grade, the last ten.**

1. (a) Explain "order of units."
   (b) Give your method of teaching notation and numeration.
2. Make a problem that the following indicated operations will solve: $\frac{\$1{,}440}{18} \times \$1.25$.
3. What will it cost to carpet a room 15 ft. 9 in. by 12 ft. 6 in. with carpet 27 in. wide, at $1.50 per yd., the carpet to be laid lengthwise of the room?
4. If 11 men build a wall in 18 days, how many men will it take to build a wall three times as long in 45 days?
5. Prove the following:
   (a) The product of two or more fractions is the same in whatever order they are used as factors?
   (b) Dividing the numerator of one fraction and the denominator of another fraction by the same number does not alter the value of their product.
6. The combined length of two trains is 1,100 ft., and one runs ¼ faster than the other. How far must they run in the same direction that the faster may pass entirely the slower?
7. A man has 4 hrs., 30 min. at his disposal. How far may he ride at the rate of 5½ miles an hour that he may return at the rate of 2½ miles an hour?
8. A room is 16 ft. long, 14 ft. wide, and 9½ ft. high above the baseboard. At 25c per single roll for the side walls and ceiling and 12c per yard for the border, what will the paper cost, half a roll being deducted for the doors and windows?

**Note.—A single roll of paper is 8 yards long and 18 inches wide**

9. A horse and cart sold for $15.00 more than their cost, the horse at a gain of 15% and the cart at a loss of 20%. If the horse cost twice as much as the cart, what was the cost of each?
10. Find the diameter of that circle whose area has the same number of sq. ft. as the lineal ft. in its circumference.
11. The owner of a building which was insured at 1¼% on 75% of its valuation, succeeded in getting a sufficient valuation on a $7,900 building so that the insurance covered both the property and the premium. What was the valuation?

**Note.—Indicate only the operations in the remaining problems.**

12. A horse is tied to one corner of an equilateral triangular field by a rope 100 ft. long which will just allow him to reach the opposite side of the field. Over how much of the field can he graze?
13. What is the weight of a lead pipe 20 ft. long whose outer diameter is 3 in. and inner diameter is 2½ in., the s. g. of lead being 11.35?
14. If a grocer use a 15 oz. weight for a lb. in selling sugar, what is the per cent of gain or loss to both buyer and seller?
15. A man buys a house and lot for $1,000 on time, with interest at 6% per annum, the purchase price and interest to be paid in three equal annual payments. What is the annual payment?

### Third Grade.—Both Classes.

1. (a) Define percentage, per cent, rate.
   (b) Give the various applications of percentage usually given in arithmetics.

2. Of what other division of arithmetic is percentage an application? Give reasons for your answer.
3. (a) Using the terms *percentage*, *rate*, and *base*, give method of finding each, the other two being given.
   (b) Give an outline showing what terms answer to *percentage*, *rate*, and *base* in (*a*) insurance, (*b*) taxes, (*c*) interest.
4 Show how the principles of multiplication and division apply in percentage.
5. (a) Make and solve a problem in profit and loss in which the cost is required, the selling price and gain or loss per cent only being given.
   (b) Make and solve a problem in insurance in which the premium is required.
6. (a) Of 5 lbs. of food taken by red-winged black-birds, all but 10 oz. is made up of weed seed or insects injurious to man. What per cent of this bird's food is injurious to man?
   (b) If we produce 226 million tons of bituminous coal, worth $1.05 a ton at the mines, and 30% less anthracite, worth 60% more a ton, what is the total value of our annual product?
7. The value of the sewing machines manufactured in 1901 in this country was $21,603,200 or 133⅓% of the value of ten years before. What was the value then?
8. Write a note due in 5 mo., 12 days after date, at 6% interest, such that when due it will amount to $308.10. Prove your work.

Five credits for correct form of note and five for proof.

9. A man bought 100 shares of N. Y. Central at 118⅛% and held it one year receiving 5% dividend on the par value. He might instead have left his money in a bank receiving 3% per annum. How much did he increase his income, brokerage being ⅛%?
10. A farmer has two cows, one of which supplies 1,000 lbs. of milk per month, testing 3% butter fat, the other 800 lbs., testing 4% butter fat. If the butter made weighs ⅙ more than the butter fat and is worth 25c a pound, which cow gives the greater profit per month, and how much?

## MENTAL ARITHMETIC.

### All Grades.

NOTE.—(1) Distribute these lists among all the applicants, placing them face down upon the desks.
(2) Each applicant write his number or name across the back of the list.
(3) At a signal from the commissioner, all reverse the papers and in the *right-hand margin* write as many answers to the questions as possible in 15 *minutes*.
(4) At the second signal, all again reverse the papers when they will be at once collected by the examiners.
(5) Do not attempt to solve these problems by long methods. Look for the "short cuts."
Give *one credit* for each correct answer written, making 20 credits for this part of the examination.

1. Write the sum of the following products: 3 × 9, 7 × 9, ⅓ × 9, and ⅔ × 9.
2. Write the sum of the following quotients: 12 ÷ 8, $\frac{16}{8}$, 45 ÷ 9, $\frac{18}{8}$.
3. Find the cost of 5 doz. eggs at the rate of 5 for 7 cents.
4. If a section of land is worth $8,000, what is 40 acres of it worth?
5. What per cent of 16 is 4% of 32?
6. What per cent of 32 is 4% of 16?
7. Put a price each upon pencils, costing 30 cents a dozen, to make a profit of 20%.
8. Put a cost price upon pencils selling at 5 cents for 2 with a profit of 25%.
9. The value of a house and lot is $1,200. The assessed valuation is 75% of the real value. What is the tax at ½%?
10. With conditions in No. 9, find amount to pay; valuation $8,000, collection fee ½% additional on tax.
11. Find the cost of half a million pens at 20 cents per hundred.
12. Find discount at ⅓% on a bill of $1,246.
13. An acre of ground costs ⅓ as much as is paid for a horse. At the same price, how many acres could be bought with the money paid for 15 horses?
14. At $3 for 9 yds. of cloth, how many yards can be bought for $300?
15. If A's money is ⅔ of B's and B's is ⅓ of C's, what is the relation of A's to C's?
16. How many acres in a field 160 rods long and 5½ rods wide?
17. Multiply 36 by 33⅓.
18. Divide 1,200 by 75.
19 25% of a gallon is what per cent of a quart?
20. ¾ of 12 is 3 times ⅓ of what number?

## BOTANY.

### First Grade.

1. (a) Why is emphasis placed upon structural botany in modern teaching?
   (b) Give a list of apparatus necessary to secure good results in teaching botany.
2. Outline a laboratory study of the flower.
3. Outline a laboratory study of seeds.
4. Give in detail the anatomy of a maple leaf.
5. Give five methods of propagating plants. Describe fully one of them.
6. Describe the elongation of roots and stems.
7. (a) Describe the process of photosynthesis.
   (b) Name some diseases which attack plants.
8. Give the use of carbohydrates in plants. How is digested plant food distributed?
9. Give the cause of a plant's "wilting". Why does corn "roll" in a dry time?
10. Describe the fibro-vascular bundle. Explain the collateral, concentric, and radial plans of arrangement of such bundles.

### Second Grade.

1. Name the different kinds of roots.
2. Name three climbing plants and two running plants. Are these suitable for use on school grounds?
3. Explain the terms complete, symmetrical, perfect, as applied to flowers.
4. Name the kinds of stems as to manner of growth. Give examples.
5. Give the difference between a leaf bud and a fruit bud.
6. Name three plants which grow from bulbs. When do they blossom?
7. Name ten wild plants that bear flowers in the fall.
8. Describe growth, leaves, and flowers of one of the above plants.
9. Describe the proper procedure in transplanting a tree or shrub.
10. Name the parts of a seed like corn and give conditions for rapid germination.

## CIVIL GOVERNMENT.

### First and Second Grades.

**Applicants for second grade certificates answer the first ten; first grade, the last ten.**

1. Contrast the present Constitution with the Articles under which the States were governed before its adoption.
2. Give the "preamble" to the United States Constitution.
3. (a) What is the Cabinet? Is it authorized by the Constitution?
   (b) Which is the most important Cabinet officer? Why?
4. Give outline of procedure in the impeachment of a Federal officer.
5. Mention some of the duties of the Secretary of the Treasury.
6. Outline the Federal judiciary.
7. (a) What is meant by "direct vote" for U. S. Senators?
   (b) What officers are nominated by direct vote under Michigan law?
8. Give the prohibitions of the Constitution.
9. Mention the powers of Congress that have to do with financial matters.
10. (a) Discuss the veto power.
    (b) What President used it the most vigorously and in what class of cases?
11. (a) Discuss the right of Congress to regulate railroads.
    (b) Has Congress taken any action in the matter, and what, if any, recently?
12. Give the substance of six of the amendments to the Constitution.
13. Explain:
    "The shoe-string district," "dumb-bell district," "Gerrymander," "elastic clause," "long session of Congress," "continuing body," "filibustering."
14. (a) What is "police power?"
    (b) Mention its principal application in affairs of government.
    (c) How has it been applied recently?
15. Discuss the "jury system" with reference to (a) its constitutional basis, (b) its weaknesses and abuses.

### Third Grade.—Both Classes.

1. (a) When was the Constitution of the United States adopted and how?
   (b) How many and which states had adopted it when it went into effect?
   (c) How were the states governed before adopting the Constitution?

2. Mention some powers granted by the Constitution that the states did not have before
3. Congress:
   (a) What is the "upper house," the "lower house"?
   (b) What are the qualifications for each?
   (c) When must Congress meet?
4. (a) What are the different departments of government?
   (b) Show that these departments are distinct and how they are kept so.
   (c) Why should they be kept distinct?
5. Give the various steps necessary for the nomination and election of the Governor.
6. The tariff:
   (a) What is it? (b) How is it an indirect tax? (c) How is it collected?
7. Who determines what shall be the standard of value? What is it? Where is it coined? Is anything added to its value by coining it?
8. Give the substance of the Constitutional provisions with reference to patents and copyrights.
9. (a) What is a bankruptcy law?
   (b) How may it be beneficial? How may it be injurious.
10. How can the people stop a war that is objectionable to them?

## COURSE OF STUDY.

### All Grades.

NOTE.—This examination is a test of the applicant's knowledge of the *State Manual and Course of Study*, and not to learn his personal opinion of a course of study.

1. Give the general plan of language work in the first and second grades.
2. In what three particulars does the number work suggested in the Course of Study differ from the text-books with which you are familiar?
3. What is the attitude of the Course of Study with respect to vertical writing?
4. Outline the work of the fifth grade.
5. State ten facts with reference to Michigan, found with the map of Michigan in the Course of Study.
6. Give five of the "pivotal" dates of history found in the history outline.
7. Give one of the following devices:
   (a) For placing the decimal point in division of decimals.
   (b) For teaching long division.
   (c) For adding.
8. Give in substance the method of beginning fractions with use of discs.
9. Give the plan suggested for the ninth grade in connection with the eighth grade.
10. Draw some figure given in the Course of Study to show perspective.

## GENERAL HISTORY.

### First Grade.

1. Compare the Olympian games of 1906 with those of ancient Athens.
2. Was the triumvirate contrary to the principles of the Roman republic? If so, in what ways? What triumvirates were formed and what were their purposes?
3. Against what forces did the French revolt in the French Revolution? Who were the leaders of this revolt? What was the effect of the American Revolution upon the French?
4. (a) What institutions and systems fostered and increased Papal power?
   (b) Give in full the causes of the Reformation.
5. Who is the President of the French Republic? Compare his powers with those of our own President.
6. Describe the state of the English government under Charles I.
7. Who are the Boers and what is the policy of Great Britain toward them?
8. Give the chief provisions of any three of the following:
   (a) Act of Settlement.
   (b) Berlin and Milan Decrees.
   (c) Reform Bill of 1832.
   (d) Conventicle and Five-Mile Acts.
   (e) Petition of Rights.
   (f) Bill of Rights.
   (g) British Educational Bill.
9. What was the "Holy Alliance?" How did both England and the United States regard this alliance?

10. Write a paragraph concerning one of the following: Serge Witte, Goremykin, the duma, Pierre Currie, Haakon VII.

### Second Grade.

1. Give a brief outline of the Persian invasions of Greece and tell how the results affected the government.
2. What obstacles prevented the spread of Christianity in the first century A. D.? Who was the first christian Emperor of Rome and what did he do for his religion?
3. What were the general conditions in Europe preceding the Renaissance and the causes of the same?
4. Describe Charlemagne's system of government and the condition of the people during his reign.
5. How did Cardinal Richelieu plan to aid his king and what were the results of his efforts?
6. Give the chief characteristics of William of Orange as a monarch.
7. What were the causes and results of the Franco-Prussian War?
8. (a) When and how did Poland become a part of Russian territory?
   (b) Who is the chief ruler of England, Germany, France, Russia, Norway?
9. Give the names of five great English orators and state what each advocated.
10. (a) What is anarchism?
    (b) What is a revolution?
    (c) Give an illustration of each during the past year in European countries.

## GEOGRAPHY.

### First and Second Grades.

Applicants for second grade certificates answer first ten questions; for first grade, last ten.

1. Name the chief productions of Canada for export. Which of these come to the United States? With what other countries has Canada an export trade?
2. To what countries chiefly does the United States export meats, flour, corn, cutlery?
3. Name the chief seaports of Europe.
4. Name the chief seaports of the United States.
5. Name the river systems of Asia with direction of slope. Locate the divide between waters flowing north and those flowing east and south.
6. What are the metal and mineral productions of Mexico? The chief agricultural productions?
7. Name five cities of South America and indicate the pronunciation of each.
8. Discuss the rainfall of the torrid zone. Explain the "belt of calms."
9. Describe the Mississippi Valley as to soil, surface, climate, temperature, rainfall.
10. Locate Shanghai, Singapore, Athens, Hamburg, Stockholm, and state why each is important.
11. Give three reasons why the Panama canal should be constructed as soon as possible
12. What phases of geography should be emphasized? Why?
13. Describe in detail the topography of Canada.
14. Name the countries that practically furnish the world's supply of camphor, quinine, pepper, mahogany, dyewoods.
15. Locate the world's petroleum fields, wheat fields, rice fields.

### Third Grade.—Class B.

1. Name the zones. Describe the climate of each and cause.
2. In which zone do we find the most vigorous animal life and in which the most vigorous vegetable life? Why?
3. Name the continents. Locate, name, and describe the mountain regions, plains, and river systems of North America.
4. Name the groups of states usually studied in the United States.
5. Why are regions west of the Rocky Mountains practically rainless?
6. Name three great transportation lines in the United States.
7. Name the chief cities of the Mississippi Valley.
8. What are the chief resources of Michigan, Montana, Texas, Pennsylvania, Missouri?
9. Name and locate the territory belonging to the United States. How many states? How many territories? Name the latter.
10. Name five exports from the United States.

### Class A.

1. Outline a lesson study on a school ground.
2-3. Explain change of seasons and day and night as to a class.
4. How do you develop the idea of a river basin?
5. Do you approve the use of a sand table? Why?
6. What collections do you have the children make?
7. Define geography and the three divisions of it.
8. In what grade should a text in geography be used first? Why?
9. Name and locate the territory belonging to the United States. How many states? How many territories? Name the latter.
10. Name five exports from the United States.

## GEOMETRY.

### First Grade.

Note.—All theorems are to be demonstrated. All constructions are to be made with lines and not reduced to numbers.

1. (a) What portions of geometry should be memorized?
   (b) What error is liable to be made in the use of corollaries?
   (c) What do you understand by "a knowledge of geometry?"
2. Under what conditions are triangles congruent?
3. Give what you consider the four most fundamental theorems of plane geometry. Give reasons.
4. Give what you consider the best demonstration of the Pythagorean theorem, and draw figures for such other demonstrations as you can give.
5. (a) Prove that a circle can be circumscribed about any regular polygon.
   (b) To inscribe an octagon in a circle.
6. If from a point two tangents are drawn to a circle, and between the said point and the circle a third tangent be drawn cutting the two tangents so drawn, the primeter of the resulting triangle will be a constant quantity.
7. If on the two segments into which a diameter of a circle is divided by a point, semi-circumferences are described lying on opposite sides of the diameter, the sum of their lengths is equal to the length of the semi-circumference of the given circle, and the line which they form divides the circle into two parts whose areas are to each other as the segments of the given diameter.
8. Two diagonals of a regular pentagon, not drawn from a common vertex, divide each other into extreme and mean ratio.
9. Divide a circle into three equivalent parts by concentric circumferences. Explain fully.
10. On a given line-segment as a chord to construct a segment of a circle containing a given angle.

## GRAMMAR.

### First and Second Grades.

Applicants for second grade answer first ten questions; for first grade, last ten.

1. Define phrase, clause; state how each may be used.
2. Define declension, conjugation, comparison. What general term may be applied to all of them?
3. Give six rules for forming plurals and illustrate.
4. Give and illustrate instances where *that* is preferred to *who* or *which*.
5. Give the cases and the gender in which *what* is used. Is its antecedent ever expressed? What is its equivalent?
6. Explain transitive and intransitive verbs as to a class.
7. How do you classify adjectives? Give your authority.
8. How many and what forms has the participle? State what each expresses.
9. Make sentences containing verbs in the following forms:
   (a) First person, plural, perfect, indicative.
   (b) Third person, singular, present, indicative, used interrogatively.
   (c) Second person, singular, past, subjunctive.
10. Give rules for parsing infinitives, adverbs, pronouns.
11. Show that only factitive verbs can be followed by the objective complement construction.

12. The clauses of a compound sentence may be classified as follows: copulative, disjunctive, adversative, illative. Explain and illustrate each.
13. Define and illustrate periodic and loose sentences.
14. Give the different grammatical uses of the word *it*, and illustrate each.
15. What are independent elements and how do you treat them? How do you treat idiomatic expressions?

### Third Grade.—Class B.

1. Define verbs and state how they are classified according to use.
2. Explain voice. Explain the voice of the verb in the sentence, "Poor John was laughed at by his playmates."
3. Name the tenses used in the subjunctive mode.
4. What may the subjunctive mode express? Illustrate.
5. Give the principal parts of lie, go, fly, sit.
6. Conjugate the verb sit in the present, past, and future tenses.
7. Analyze:
   Walking is a healthy exercise, and he who walks uprightly and looks his neighbor squarely in the face is both healthy and honest.
8. Define infinitive, participle, gerund.
9. Give three rules for using the comma, one for the semicolon, three for the period.
10. Define syntax. How does your author dispose of idiomatic constructions?

### Class A.

1. What are the principal parts of a verb? Why so called?

2-3. Write a story about the bees such as you would require from the fourth grade, noting points to be emphasized.

4. How do you teach your pupils to discriminate in the use of adjectives and adverbs.
5. Give the principal parts of lie, go, fly, sit.
6. Conjugate the verb sit in the present, past, and future tenses.
7. Analyze:
   Walking is a healthy exercise, and he who walks uprightly and looks his neighbor squarely in the face is both healthy and honest.
8. Classify adverbs.
9. Classify conjunctions.
10. State what rules of punctuation should be fixed in the child's mind during the first four grades.

## ORTHOGRAPHY.

### All Grades.

1. Define a letter, cognates, dipthong, monosyllable, digraph.
2. Classify syllables and give examples of each class.
3. (a) In what grade should the most attention be given to spelling? Why?
   (b) Do you believe in reformed spelling? Why? Give a list of ten words which spelling reformers agree in changing.
4. What is a hyphen, an apostrophe, quotation marks? Give all the uses of each.
5. Give five rules for spelling with exceptions and illustrations.

## LIST OF WORDS.

### All Grades.

1. visionary
2. cataract
3. apparel.
4. immortality
5. goal
6. gymnasium
7. Des Moines
8. serviceable
9. promenade
10. Fort Duquesne
11. bronchial
12. heresy
13. chocolates
14. parallelogram
15. subtrahend
16. descent
17. dynamo
18. aisles
19. nostrils
20. spinach
21. Euphrates
22. cauliflower

23. Keokuk
24. synopsis
25. certificate
26. pinafore
27. electric
28. prowl
29. contagious.
30. recipe
31. inseparable
32. pickerel
33. acquaintance
34. croquet
35. anarchist
36. crokinole
37. Merrimac
38. niche
39. Bethlehem
40. hyacinth
41. scourge
42. sassafras
43. Oshkosh
44. hemisphere
45. Poughkeepsie
46. socket
47. monetary
48. sandwiches
49. superlative
50. parachute

## PHYSICS.

### First Grade.

1. Define energy, state kinds, and give the formulæ for measuring each in gravitation units and absolute unit.
2. Give the three conditions of equilibrium and give familiar examples of each.
3. (a) Give the general laws of machines.
   (b) Make and solve a problem involving the lever of the third class.
4. Give Pascal's law of pressure and find the pressure on a dam 20 feet high and 200 feet long.
5. Define pitch, musical interval, musical scale, fundamental tones and overtones, covibrations, sympathetic vibrations.
6. (a) Why is one end of a long iron bridge usually supported on rollers?
   (b) Explain coefficient of expansion.
7. (a) What is a thermal unit? Explain the difference between specific heat and thermal capacity.
   (b) What will be the result of mixing 5 oz. of snow at 0° with 23 oz. of water at 20°?
8. Explain the action of plane and concave mirrors on light. Draw figure. Illustrate total reflection and explain.
9. (a) Explain the process of electrification, potential, electro-motive force.
   (b) How is the direction of a current determined?
10. (a) Describe the construction of a galvanoscope.
    (b) Describe an instrument used to measure the resistance of any conductor.

### Second Grade.

1. Explain the operation of the telephone.
2. What is electro-magnetism?
3. Define current, resistance, conductor, poles.
4. Draw the eye and demonstrate the action of the lens on a ray of light.
5. What is the theory of sound? Explain interference of sound waves.
6. (a) Define specific gravity.
   (b) A piece of lead weighs 24 grams in air and 18 grams in water. Find its specific gravity.
7. What are the elements of machines? Why so called?
8. Give the laws of falling bodies.
9. What are the three states of matter and upon what does each condition depend?
10. Define capillary attraction and give some familiar illustrations in nature.

## PHYSIOLOGY.

### First and Second Grades.

Applicants for second grade certificate answer first ten questions; for first grade, last ten.

1. Locate the following: innominate bones, malar bones, matrix, metacarpus, sacrum.
2. (a) Describe the muscular control of the eye.
   (b) Describe the larynx and explain variation of pitch as produced by congestion, age, sex.
3. Why and how is cigarette smoking especially harmful to the respiratory organs?
4. (a) What is a gland?
   (b) Name and locate the glands of the body.
5. Outline the work which you teach on the hygiene of the clothing.

6. Describe the digestion and absorption of fats.
7. Describe healthy blood. Mention some common habits which make the blood. sluggish or impure. How may it be kept in good condition?
8. (a) Name and locate five muscles.
   (b) Explain how muscles and bones cooperate.
9. What simple remedies should the teacher always have at hand?
10. Give the essential treatment for choking, asphyxia, narcotic poisoning.
11. Describe the memory (physiologically) and explain why recalling one thought brings to mind another of the same object.
12. (a) Explain the difference between a nerve ganglion and a nerve center. What is the purpose of each?
    (b) What is the value of coordination in the nervous system?
13. Explain the difference in action of ptomaines, toxins, and alkaloids.
14. Give in detail five experiments of chemistry or physics which illustrate facts of physiology.
15. (a) Discuss food inspection and its relation to the welfare of the people.
    (b) How is food inspection accomplished in Michigan?

### Third Grade.—Both Classes.

1. Define hygiene, anatomy, narcotic, stimulant, fermentation, oxidation.
2. (a) Name five of the so-called "temperance drinks." Should they be avoided? Why?
   (b) Why do alcoholic drinks affect the intestines very little?
3. (a) Name five common ways of injuring the teeth.
   (b) What should be observed in order to preserve them?
4. Describe the gastric juice, its action, and the glands in which it is secreted.
5. State the difference in digestibility between rye and wheat bread; hot and cold bread; old and new bread; over done and well done beef.
6. Describe the lungs and the flow of the blood through them.
7. Describe a simple and effectual method of ventilating a school room.
8. Describe a hair. How is the hair nourished? What are its functions?
9. Describe the region from which motor impulses for voluntary motion are sent out.
10. Locate Achilles' tendon, spleen, colon, duodenum, fibula, Haversian canal, mitral valve, solar plexus, ulna, pancreas.

## READING.

### All Grades.

### "Intimations of Immortality."

**Answer ten questions, first and second grade answers including those marked with a *.**

*1-2. (a) Define an ode.
   (b) What is the rhyme scheme and the meter of this poem?
   (c) Scan the three lines of the poem given in question 5.
   (d) What can you say of the rhetorical finish of this production?

3. Distinguish between the usual meaning of the word immortality and that used by Wordsworth.

*4. (a) Define antithesis, alliteration, metaphor, personification.
   (b) Give examples of at least three of these figures as used in the selection.

5. "Then sing, ye birds, sing, sing a joyous song,
      And let the young lambs bound
      As to the tabor's sound!"

   What kind of a sentence is this grammatically? Rhetorically?

6. Interpret:

   "What though the radiance which was once so bright
   Be now forever taken from my sight,
   Though nothing can bring back the hour
   Of splendor in the grass, of glory in the flower;
         We will grieve not—rather find
         Strength in what remains behind;
         In the primal sympathy
         Which, having been, must ever be;
         In the soothing thoughts that spring
         Out of human suffering;
         In the faith that looks through death,
   In years that bring the philosophic mind."

7. Paraphrase what you consider the finest word picture in this selection.
8. What are the "obstinate questionings" of which Wordsworth speaks? Mention some other obstinate questionings which have come to you.
*9. Quote one stanza, not here given, which appealed to you.
10. What is the meaning of apparelled, of yore, tabor, equipage, forebode, meanest flower, shadowy recollections, "humorous stage," homely nurse, fallings from us, as used in the text?
11. "Whither is fled the visionary gleam?
Where *is it* now, the glory and the dream?"
(a) Justify the use of *is* and *it* in the above.
(b) "............if I were sullen
While the earth herself is adorning
This sweet May morning,
And the children are pulling
On every side,
In a thousand valleys far and wide,
Fresh flowers; ..............."
Give the grammatical construction of herself, flowers, as used above.
(c) Give the etymology of coronal, exterior.
12 Interpret:

"Earth fills her lap with pleasures of her own;
Yearnings she hath in her own natural kind,
And, with something of a mother's mind,
And no unworthy aim,
The homely nurse doth all she can
To make her foster-child, her inmate man,
Forget the glories he hath known,
And that imperial palace whence he came."

*13-14. (a) This ode has been characterized as the "high-water mark of English thought in the nineteenth century." Justify this statement.
(b) What can you say of Wordsworth as a poet of nature?
(c) In what ways has the study of this selection helped you?
*15. What is the meaning of the stanza beginning
"Our birth is but a sleep and a forgetting:
The soul that rises with us—our life's star—
Hath had elsewhere its setting."

## SCHOOL LAW.

### All Grades.

Applicants in Lower Peninsula answer those marked (a); Upper Peninsula, those marked (b).

1. (a) Give the duties of teachers and commissioners in the enforcement of the truancy law.
(b) How are township unit districts organized in the Upper Peninsula?
2. (a) Who has power (*a*) to fix the length of the school year, (*b*) to fix teacher's wages, (*c*) to provide for transportation of pupils, (*d*) to adopt text-books, (*e*) to fix the length of the school day?
(b) Give duties of boards of education in township unit districts.
3. (a) How is a teacher legally hired? When must the contract be executed.
(b) Why must all sub-districts have the same number of months of school?
4. (a) What is the ruling of the Supreme Court in regard to legal holidays and the closing of school for contagious diseases?
(b) What is the compensation of school officers in township unit districts?
5. (a) How must the primary school interest fund be used by school districts? One mill tax?
(b) Give the powers and duties of the county commissioner and board of examiners.

## THEORY AND ART.

### All Grades.

1. If you attended a summer institute this year, state three points gained that you think will improve your work as a teacher. If you did not attend an institute, state three things that in your judgment should be emphaissed in an institute.
2. Give your method or methods of asking questions in a recitation. Why do you use them?

3. How often do you conduct examinations? What is the general character of the questions used?
4. Occasionally we find teachers who are not conversant with the dictionary, who mispronounce geographical terms, who do not prepare the lessons in advance, who put poor work on the blackboard, who permit pupils to be careless and slovenly in their work, who spend evenings in social pleasure and drag through the next day more dead than alive, who use slang, who do not secure prompt and absolute obedience. State your opinion of each point, also what the examining board should do with such persons.
5 What subject can you teach best? What subject is most difficult to teach? What is your duty in each case?
6. Define memory, imagination, perception, consciousness.
7. One writer says: "The teacher's first work is to arouse the child's curiosity." Give the psychological principle upon which the statement is based.
8. State and explain three processes involved in conception. How related to perception?
9. At what age do children begin to understand the meaning of numbers? What does this mean to the teacher?
10. How may the reasoning faculties be trained in every lesson? Why should they?

## UNITED STATES HISTORY.

### First and Second Grades.

Applicants for second grade certificate answer first ten questions; for first grade, last ten.

1. (a) Who were the Quakers?
   (b) Who was their most illustrious convert?
   (c) What were his ideas as to government?
2. (a) Give names of three poems which tell of life during the colonial period, with authors.
   (b) Give the names of seven United States historians and tell what phase of history three describe.
3. Of what significance were the following battles: Fort Duquesne, River Raisin, Yorktown, Bunker Hill, Fort Sumter?
4. What were the essentials of Congress' plan of reconstruction in 1865? How did this differ from the President's plan?
5. What were the social, political, educational, and industrial conditions south of the Ohio prior to 1861?
6. Name at least three stamp act laws which have been enforced and the results of each enforcement.
7. Give an outline of the Confederate line of defense in January, 1862, and show how this had changed by the beginning of 1864.
8. What is the purpose of the Pan-American congress?
9. Give the chief provisions and fate of one of the following:
   (a) Statehood Bill.
   (b) Beveridge Bill.
   (c) Niagara Falls Bill.
   (d) Railway Rate Bill.
10. Name the chief political parties in the field in the campaign of 1896 and give the chief points in the platform of each.
11. What investigations of the past year have affected industrial conditions? What do they show regarding the power of the American *people*? Of the President?
12. (a) Upon what did the Dutch base their claims to New Netherlands?
    (b) Why did New York fail as a Dutch colony?
    (c) Why did England wish this colony and how did she get it?
13. (a) What disadvantages came to the colonies because of lack of unity?
    (b) Mention two plans advanced for the union of the colonies, and the author of each.
    (c) Give the various steps which finally led to the union under the Constitution.
14. What were the views of John Quincy Adams, Henry Clay, and Stephen A. Douglas upon the question of slavery and what did each accomplish?
15. State the principal problems of President Grant's administration and how they were met.

### Third Grade.—Both Classes.

1. What concessions to slavery were made in the Federal Constitution?
2. Sketch briefly the life of Stephen A. Douglas, state his position and views regarding slavery, and tell what he accomplished.

3. What were the "Alabama Claims?" When and how were they settled?
4. (a) What is a tariff?
   (b) Name five acts two of which were passed previous to 1850 which affected the tariff and state the results of one of these acts.
5. When and how were state banks first established? How did they affect the financial situation?
6. Compare the financial condition of our country at the close of the Revolution with that at the close of the Civil War. In each case what was done to relieve the situation?
7. What were the chief contentions of the Federalists? The Whigs? The Free Soil party?
8. (a) Name five colleges founded prior to 1850.
   (b) Name five colleges for the education of women exclusively.
   (c) Name three educational institutions maintained by the United States.
9. What do you understand by industrial education? What is its effect? Why?
10. Mention three investigations of the past year and state what has been the significance of each.

## III. Questions prepared by the Superintendent of Public Instruction for the regular examination, October 18-19, 1906.

### ALGEBRA.

#### Second Grade.

1. Explain as to a class the reason for the rules for the signs in multiplication and division.
2. Give the axioms upon which the changes in the transformations of equations are based.
3. Formulate an algebraic expression containing parentheses and brackets with both positive and negative signs, and reduce the expression to its simplest form.
4. Factor the following:
   $1 + 4c^4 - 4c^2$; $a^3 - b^3$; $a^{2n} + 5a^n - 84$.
5: Write the fifth power of a—3b.
6. What number is that which equals 5 times the sum of its two digits; and if three times the sum of the digits, plus 9, be subtracted from twice the number, the digits will be inverted?
7. Find value of each of the unknowns:
$$\left.\begin{aligned} x + y + z &= 12 \\ x + y + u &= 13 \\ x + z + u &= 14 \\ y + z + u &= 15 \end{aligned}\right\}$$
8. Find the square root of $8-2\sqrt{15}$
9. Find the price of eggs per dozen when 2 less for 12 cents raises the price 1 cent per dozen.
10. A man sold a horse for $171 gaining as much per cent as the horse cost in dollars. What was the cost of the horse?

### ARITHMETIC.

#### Second Grade.

1. The walls of a room are 8 ft. 6 in. above the base-board, and the total length of the four walls is 72 ft., allowance being made for openings. Allowing 6 in. on each strip for matching, what will paper for the side walls cost at 40 cts. a single roll? A roll of paper is 24 ft. by 18 in. wide.
2. How much will the flooring cost for the two floors in a house 28 × 32 ft. at $40 per M, one quarter being added for "matching?"
3. A, B, and C can dig 2 rods, 2½ rods, and 2¾ rods of ditch respectively in a day. They earn $58. How much should each receive?
4. A can do a piece of work in 8 days. B can do ¾ as much as A. How long for both to do the work working together?
5. After James had spent ⅗ of his money and then earned ⅔ as much as he had spent, what part of the original sum would he have? Analyze.

6. A man bought 5½ acres of land at one time, 4 acres, 45¾ square rods at another, and sold ½ of the whole at $80 an acre. How much did he receive?
7. If the interest on a sum of money for 1 year 8 months is $\frac{2}{15}$ of the principal, what will be the interest on $750 for 1 year 11 months?
8. A field is 16 rods wide and 25 rods long. How much would it cost to fence an equivalent area in the form of a square, at $2.50 a rod?
9. B's 50-acre farm is 66⅔ per cent of A's farm. How much must B buy of A to make their farms equal in size?
10. A and B are in partnership. A put in $500 and at the end of 4 months $500 more; B put in $1,000 and at the end of 8 months drew out $500. How should a gain of $500 at the end of one year be divided between them?

### Third Grade.—Both Classes.

1. The walls of a room are 8 ft. 6 in. above the base-board, and the total length of the four walls is 72 ft., allowance being made for openings. Allowing 6 in. on each strip for matching, what will paper for the side walls cost at 40 cts. a single roll? A roll of paper is 24 ft. by 18 in. wide.
2. How many yards of 27-in. carpet are needed for a room 18 ft. by 20 ft., allowing 9 in. waste for matching each strip except the first? Why no allowance for the first strip?

   Notice which way the carpet must be laid to have no waste in width.
3. In building a house 28 ft. by 32 ft. a man uses sills 6 in. by 8 in. What did they cost at $24 per M.?
4. How much will the flooring cost for the two floors of the house at $40 per M., one quarter being added for "matching?"
5. If 12 horses in 8 days consume 40 bushels of oats, how much will the oats at 28 cents a bushel cost for 5 horses for the month of October?
6. A cheese 10 in. thick contains 3.1416 cubic ft. How far from the edge to the centre?
7. A baseball diamond is 90 ft. square. How long a throw is it from the "home plate" to "second base"?

   Write a full analysis of the remaining problems.
8. ¾ of the cost of A's watch is $5 more than ½ of the cost. What was the cost?
9. A can do a piece of work in 12 days; with the assistance of his son he can do it in 8 days. What part of the work does the son do?
10. A, B, and C can dig 2 rods, 2½ rods, and 2¾ rods of ditch respectively in a day. They earn $58. How much should each receive?

## MENTAL ARITHMETIC.

### All Grades.

NOTE.—(1) Distribute these lists among all the applicants, placing them face down upon the desks.
(2) Each applicant write his number or name across the back of the list.
(3) At a signal from the commissioner, all reverse the papers and in the *right-hand margin* write as many answers to the questions as possible in 15 *minutes*.
(4) At the second signal, all again reverse the papers when they will be at once collected by the xaminers.
(5) Do not attempt to solve these problems by long methods. Look for the "short cuts."
Give *one credit* for each correct answer written, making 20 credits for this part of the examination.

1. Add 15, 25, 35, 45, 55, 65.
2. Take the difference of ½ and ¾ from their sum.
3. What per cent of a section of land is 40 acres?
4. What is the difference between a profit of 75 cents on an investment of $6, and 25 per cent profit on an investment of ½ dollar?
5. What costs a cord of wood at the rate of $4 for 1⅓ cords?
6. 256 is the square of the square of what?
7. If in a settlement A calls $6 of value $7, what should B call $15 of value?
8. If in No. 7 B calls $15 of value $20, how much per cent does he gain or lose?
9. When A can do ¾ of a piece of work in 1 hour, and B can do ½ of it in 1 hour, how long for them to do the piece of work working together?
10. Gained ¼ the cost of my watch by selling it at $25. What per cent would I have lost had I sold it at a loss of $2?
11. How many times can $6½ be subtracted from $6,500?
12. What cost 40 books at the rate of 30 books for $4.50?
13. Find the cost of 75 acres of land at $75 an acre.
14. How many horses at $125 each can be bought with $2.500?

15. What per cent of a bushel is 1 quart?
16. What per cent of 1 quart is a bushel?
17. What is the square root of 25 × 9 × 49?
18. What is the cube root of 8 × 27 × 64?
19. Bought peaches at 20 cents a dozen, and sold them at 3 for 2 cents. What was the gain per cent?
20. What is the diagonal of a rectangular field 40 rods long and 30 rods wide?

## BOTANY.

### Second Grade.

1. Roots serve as organs of absorption, storage and holdfasts. Explain each and give examples.
2. Define stem, bud; biennial and perennial plants.
3. Name five wild plants that bear flowers in the fall.
4. What bulbs may be planted in the fall for early spring flowers?
5. Describe the growth, leaves, and flowers of the golden rod.
6. Name three plans of leaf venation and plants bearing leaves having each plan.
7. Define calyx, corolla, receptacle, pollen, stamen.
8. Define raceme, spike, umbel, catkin, compound flower.
9. Name five fruit forms and give examples.
10. Outline a plan for making and preserving a collection of leaves.

## CIVIL GOVERNMENT.

### Second Grade.

1. (a) How many congressmen in Michigan?
   (b) Who is your U. S. representative?
2. Governor of Michigan:
   (a) Who at present?
   (b) For how long?
   (c) Salary?
   (d) When again elected?
   (e) Nominees?
3. (a) What is an *ex post facto* law?
   (b) What is a writ of *habeas corpus*?
   (c) What is a bill of attainder?
4. (a) Explain the difference between the methods of electing a representative to Congress and a U. S. senator.
   (b) Give the term of office and salary of each.
5. (a) What bills must originate in the house of representatives?
   (b) What is the reason for this?
6. Distinguish between (a) a direct and an indirect tax, (b) an excise and a tariff, (c) a citizen and an alien.
7. Discuss fully patents and copyrights.
8. (a) What is a reprieve? a pardon?
   (b) Who grants reprieves and pardons?
9. Discuss the Cabinet.
10. Outline the school system of Michigan.

### Third Grade.—Both Classes.

1. What are the three departments of government?
2. Give outline of election of officers in one of these departments.
3. (a) How many congressmen in Michigan?
   (b) Who is your U. S. representative?
4. The President:
   (a) When next elected?
   (b) For how long a term?
   (c) Salary?
   (d) Residence?
   (e) Successor in case of death?

5. Governor of Michigan:
    (a) Who at present?
    (b) For how long?
    (c) Salary?
    (d) When again elected?
    (e) Nominees?
6. Members of State legislature:
    (a) How often chosen?
    (b) For how long?
    (c) How many in each "house?"
    (d) Salary?
7. Give the method by which State laws are passed.
8. State five facts relative to the State Supreme Court, with reference to organization selection, term, salary, etc.
9. County officers:
    (a) How many and what?
    (b) When elected and for how long?
    (c) Duties of one of them.
10. (a) What is an *ex post facto* law?
    (b) What is a writ of *habeas corpus*?
    (c) What is a bill of attainder?

## COURSE OF STUDY.

### All Grades.

1. (a) What are the advantages of a course of study?
    (b) What are some of the disadvantages?
2. How many months of school does a grade aim to cover?
3. In case a district has fewer months than this number, what should the teacher do?
4. Outline the language work of the second grade.
5. What is suggested in the beginning of spelling.
6. State some of the suggestions given in the beginning of language work.
7. Give in brief the main suggestions with reference to the introduction of problems.
8. (a) In what grade is United States history taken up as a study?
    (b) What suggestions are given with reference to maps in the study of history?
9. (a) Mention some kinds of accounts given in bookkeeping.
    (b) When are red ink entries made?
10. Make a list of ten pictures suggested under "Schoolroom Decoration," giving grade of each, if possible.

## GENERAL HISTORY.

### Second Grade.

1. (a) Outline the life of the present German Emperor.
    (b) Mention some conditions in Germany which make her a world power; some which are demoralizing.
2. (a) Who is prime minister of England? Who is King?
    (b) What is the present condition of the following: (a) Educational matters in England, (b) Ireland, (c) Canada?
3. Give an account of the growth of religious freedom in England during the past century.
4. Give the chief characteristics of Egyptian civilization and tell in what ways it affected later generations.
5. What was the purpose and result of the first Punic War?
6. Compare the condition of the Teutonic peoples in the century preceding the fall of Rome with their condition in the second century succeeding.
7. Tell of the Saracen invasion and its influence upon Spain.
8. What was the Council of Trent and what was accomplished by it?
9. What was Napoleon's continental policy? How did he seek to enforce it and with what results?
10. Of what significance was the battle of Hastings, of Nasby, of Bannockburn?

## GEOGRAPHY.

### Second Grade.

1. Explain the commercial significance of Secretary Root's trip through South America.
2. Name the river systems of Africa with chief rivers of each and the direction of slope for each system.
3. Name and locate the capitals of the north central states, of the southern states.
4. Name the bays and capes on the coast of North America.
5. What is the character of our trade with England?
6. Locate the iron, copper, coal, and salt fields of Michigan. Do this accurately.
7. Name and locate ten of the most important seaports of the world. What products predominate in the trade of each.
8. Give the topography in detail of North America.
9. (a) Define zone, name each, give width of each in degrees.
   (b) What determines the width?
10. Define reefs, glaciers, flood plain, delta, tides.

### Third Grade.—Both Classes.

1. Bound Eurasia. Locate the divides and slopes of Eurasia.
2. Name the countries of Europe in order of commercial precedence with capital of each.
3. Compare the resources of Sweden and Italy.
4. Name the products of Russia, describe her schools and the occupations of the people.
5. Give general location of Australia; also area, population.
6. Describe the government, schools, and occupations of the Australian people.
7. What countries control nearly all of Africa? Why is the influence of England predominant?
8. Name the chief islands of the East Indies. To what countries do they belong, and for what is each valuable?
9. Locate Melbourne, Singapore, Port Said, Antwerp, Warsaw, Glasgow, Odessa, Copenhagen, Bordeaux, Hamburg.
10. Compare Germany and England as to area, wealth, population, education.

## GRAMMAR.

### Second Grade.

1. What are the elements of the sentence? Of what may each of them be composed?
2. (a) Define etymology, syntax, orthography.
   (b) What is the basis of the authority of grammar?
3. Give three ways of indicating the gender of nouns and illustrate.
4. Give eight uses of the noun in a sentence and illustrate each.
5. Name the modes and state what each shows. Define tense.
6. Explain the use of auxilliary verbs. What is the real purpose of conjugation of verbs?
7. Explain the difference between a conjunctive adverb and a conjunctive pronoun. Illustrate.
8. Explain the construction of the subject of an infinitive, as in the sentence, "I knew him to be a gentleman."
9. Give the rules for the comparison of adjectives and adverbs. Illustrate.
10. Analyze—"Why did you not give him the book when I told you to do so?"

### Third Grade.—Both Classes.

1. Explain transitive and intransitive verbs. Give three ways by which a verb usually transitive may become intransitive.
2. Define the four modes.
3. Give and illustrate five uses of the infinitive.
4. Define participle and explain the three forms.
5. Explain and illustrate how the emphatic, progressive, and passive forms of the verb are made.
6. Classify adverbs according to their use in sentences, also according to meaning.
7. Name the kinds of conjunctions and give example of each.
8. Conjugate the verb lay in the subjunctive mode, and give its participial and infinitive forms.
9. Analyze—Tell *me what* you *bought at the* fair.
10. Parse the italicized words in the foregoing sentence.

## ORTHOGRAPHY.

### All Grades.

1. Indicate by diacritic marks all the sounds of the letters a, c, g, u, o.
2. Name and define four words derived from the word teach and give meaning of each. Give synonyms of two of the words so derived.
3. Analyze five derivative words and give meaning of suffixes and prefixes.
4. Define accent, palatals, mutes, antonyms, affix, syllable. Give an illustration of each.
5. (a) Give meaning of Ph. D., sq., qt., Q. E. D., M., I. H. S., Messrs., U. S. N., ibid, adj., pkg., payt.
   (b) Give three successful methods for teaching spelling.

## LIST OF WORDS.

### All Grades.

1. partition
2. crockery
3. Gibraltar
4. column
5. musician
6. Ludington
7. respiratory
8. mahogany
9. promontory
10. Omaha
11. ganglion
12. cowslip
13. fraction
14. nominative
15. marvelous
16. catalpa
17. baptism
18. gauge
19. petroleum
20. vanilla
21. syringa
22. participle
23. seizure
24. formula
25. noticeable
26. druggist
27. diagramming
28. Honolulu
29. majority
30. clef
31. academy
32. threshold
33. Stockholm
34. milliner
35. ambassador
36. laboratory
37. Worcester
38. sapphire
39. integers
40. asphyxia
41. St. Ignace
42. nervous
43. Missaukee
44. saleratus
45. Escanaba
46. pistil
47. naphtha
48. isthmian
49. several
50. rebellion.

## PHYSICS.

### Second Grade.

1. Give the laws of the pendulum.
2. Give the three conditions of matter and explain each.
3. What is gravity? Explain weight.
4. Name the elements of machines, and form and solve a problem using one of them.
5. Explain the principle of the hydraulic press.
6. Draw a figure and explain the operation of the siphon.
7. Give the general theory of sound. Give the laws of vibrating cords.
8. (a) What causes the difference in color of objects?
   (b) Name the colors of the rainbow and state which are "easy" for the eyes.
9. Explain reflection and refraction of light. Draw figures.
10. (a) Define conductors, electrification, electrical field.
    (b) Give several simple experiments to show the fact of positive and negative or opposite electrical effects.

## PHYSIOLOGY.

### Second Grade.

1. Name four minerals which enter into the composition of the body, state how each is obtained as food, and their relative importance.
2. Describe fully the alimentary canal.
3. (a) Draw a section of a tooth, name the parts, and give the composition.
   (b) Give common habits which injure the teeth.
   (c) How should the teeth be preserved?
4. (a) How is the flow of the blood regulated?
   (b) What are the effects of injuries to (*a*) veins, (*b*) arteries? How does nature act in such cases?
5. State what *PUBLIC HEALTH has to say regarding one of the following: diphtheria, as a communicable disease; use of ice; use of disinfectants.
6. Describe periosteum, pleura, mucous membrane.
7. (a) What constitutes the nervous system?
   (b) How may the brain be developed? how injured? how rested?
8. (a) Describe the dermis and epidermis. What organs are located in the dermis?
   (b) State the difference between care of the skin of a physical worker and that of a mental worker.
9. (a) What is meant by sanitation?
   (b) What unsanitary conditions are common about school houses? Which of these apply to yours? What measures have you taken to have these improved?
10. (a) Give three exercises which will develop the lungs.
    (b) Describe deep breathing.

### Third Grade.—Both Classes.

1. (a) What is the purpose of the iris, the retina, tears?
   (b) What are the symptoms of nearsightedness? When these symptoms are observed in pupils, what should be done?
2. Describe and state the functions of the dermis and epidermis. What causes the skin to "chap?"
3. Name four kinds of tissue and state their differences.
4. State the essential differences necessary in the food and clothing of a merchant and of a farmer.
5. Describe the skeleton of the arm and hand.
6. What is a joint? Name, locate, and describe three kinds.
7. (a) Give functions of the lungs, diaphragm, hepatic vein, spleen.
   (b) How is the flow of the blood regulated?
8. (a) What functions are controlled by the sympathetic nervous system?
   (b) Describe this system.
9. (a) Name three good disinfectants.
   (b) What epidemics are likely to occur among pupils?
10. Why are alcoholic drinks especially harmful to the nervous system?

## READING.

### All Grades.

### "The Gray Champion."

1. (a) Give the approximate date of the incidents described in "The Gray Champion."
   (b) Mention five "wrongs" which were oppressing New Englanders.
2. Who was Sir Edmund Andros? When and how did his rule end?
3. Describe the crowd which gathered in King street.
4. What was the idea of the crowd as to the object of the demonstration?
5. Describe the demonstration of Andros and his soldiers.
6. (a) Of what conditions was the entire scene a picture?
   (b) Why was the New England government deformed?
   (c) Are there any such to-day? Where?
7. Describe the personal appearance of "The Gray Champion."

---

*PUBLIC HEALTH is the bulletin issued quarterly by the State Board of Health and mailed to all teachers.

8. (a) Define symbolism.
   (b) Who and what was, in reality, this champion?
9. What was the real power of this man? How did it affect the governor?
10. What became of "The Gray Champion" when his work was over? Has he ever appeared since? When do the people of New England hope to see him again?

## SCHOOL LAW.

### All Grades.

Applicants in Lower Peninsula answer those marked (a), Upper Peninsula those marked (b).

1. (a) Who is the legal librarian in a school district, a township?
   (b) Why should every sub-district have a library if any has one?
2. (a) Give the provisions which the law requires in a teacher's contract.
   (b) How are school moneys raised in a township unit district?
3. (a) Give ten duties of the director.
   (b) Give ten duties of the secretary of board of education.
4. (a) Who are qualified voters in a school meeting?
   (b) Who may be elected as trustee in a township district?
5. What reports has the commissioner a right to require from teachers? What is the penalty for failure to make such reports?

## THEORY AND ART.

### All Grades.

1. What constitutes a school (a) legally, (b) morally?
2. Give your method of assisting pupils (a) in reading, (b) in arithmetic, (c) in grammar.
3. Give some of your methods of securing obedience, attention, punctuality.
4. Define perception, imagination, reasoning.
5. Outline a lesson plan for teaching the two conceptions of a fraction (a) as a part of a whole, (b) as an indicated division.
6. Should both be taught in one lesson? Why?
7. What is the relation of clear ideas to the will?
8. Define motive, incentive, concept.
9. Name the personal qualities of your teachers that you have admired. Do these enter into your ideal of a teacher?
10. To which subjects do you give the most daily preparation? Why?

## UNITED STATES HISTORY.

### Second Grade.

1. Outline the story of the Jamestown colony from the beginning to its destruction.
2. What treaty closed Queen Anne's war? What were the English gains?
3. (a) Who was King of England at the time of the Revolution?
   (b) What were some of the conditions in his own country?
   (c) Who were some of his advisers and what methods did each propose for the treatment of the colonists?
4. (a) Why did Arnold turn traitor?
   (b) What was the Conway Cabal?
5. (a) Mention four things which Congress can do under the present Constitution which it had no power to do under the Articles of Confederation.
   (b) Why did the states hesitate to ratify the Constitution?
6. Give an account of John Brown at Harper's Ferry and state the effect of the raid.
7. Outline the work of Grant, Lee, and Sheridan in the Civil War.
8. (a) What was the relation of the United States to Cuba in 1898? 1904?
   (b) What can you say of their relations at present?
9. Mention laws now in force which affect trade, money, commerce, food, trusts.
10. Write paragraphs concerning two of the following: Earthquake at Valparaiso, Tuskegee Institute, William Jennings Bryan, Pan-American Congress, Drago doctrine, Andrew Carnegie, Helen Keller.

### Third Grade.—Both Classes.

1. (a) Whom do you consider the three foremost American men of the period 1765–1780?
   (b) When was the Critical Period, why so called, and who were the strongest Americans of this period?
2. (a) Who was King of England at the time of the Revolution?
   (b) What were some of the conditions in his own country?
   (c) Who were some of his advisers and what methods did each propose for treatment of the colonists?
3. (a) What was the English notion of trade?
   (b) Mention the laws passed regulating trade and the object of these laws.
4. Describe the object and results of the Yorktown campaign.
5-7. (a) When and where did the Federal Convention meet?
   (b) When and where were the Articles of Confederation framed?
   (c) State the essential differences between the government outlined by the Constitution and that by the Articles of Confederation.
   (d) What do you think was accomplished by the adoption of the Articles?
8. Why did the states hesitate to ratify the Constitution?
9. (a) What constituted the northwestern territory?
   (b) When and how had it become a part of the United States?
   (c) How did it become a bond of union?
10. (a) Why was a union of the colonies necessary?
   (b) What was the Albany plan? Who proposed it?
   (c) What was the attitude of the people toward the Albany plan?

# EIGHTH GRADE EXAMINATION.

Questions prepared by the Superintendent of Public Instruction for the regular examination, May 3–4, 1906.

## ARITHMETIC.

1. Define (a) notation, (b) numeration, (c) subtraction, (d) multiplication.
2. (a) Give the principles of division and show, by three illustrations, how they apply in fractions.
   (b) Explain by analysis the reduction of 2¾ to an improper fraction.
3. B sold ⅓ of his farm and then received $1,500 for ¼ of the remainder at $75 per acre. How large was the farm at first?
4. A's money is two times B's and together they have $30. How much has each?
5. (a) How many pints in ½ bbl?
   (b) How many acres in 100,000 sq. ft.?
6. Add 1 lb. 12 oz.; ⅞ lb.; ⅞ oz.; 6¾ lbs.; ⅝ lb.; .125 lbs.
7. How much will a square timber 30 ft. long and 15 inches thick cost at $25 per thousand?
8. Find the interest upon a note for $360 given the tenth of last January and due to-day, at 6%.
9. When goods are sold at a discount of 3⅓% for cash what price is put upon goods that bring $1.16 a yard?
10. A commission merchant charges 2% for buying goods. A man wishes to buy through him $490 worth of goods. How much money must he send the commission merchant?
11. What will it cost to dig a ditch 400 ft. long, 2 ft. wide, and 4 ft. deep, at 15 cents a cubic yard?
12. A man took to market three loads of wheat weighing respectively 2,460 lbs., 2,190 lbs., 1½ tons, and receiving for the same 90 cents a bushel. How much did he receive?
13. If ¾ of a ton of coal costs ⅝ of $10, what will 10 tons cost?
14. How many days from July 25th to October 31st?
15. Two clocks are together at 12 o'clock. One loses 4 minutes a week, and the other gains 5 minutes a week. In how many days, hours, and minutes will they be an hour apart?

## CIVIL GOVERNMENT.

1. Who is the chief executive of (a) the United States, (b) the State, (c) the county, (d) the township, (e) the school district, (f) the schoolroom?
2. State five things relating to the President's office.
3. What officials are the President's chief advisers? How are they chosen?
4. Give five duties of these officials and state to which office each duty belongs.
5. Why is it advisable to have two houses of Congress? Give full answer.
6. Which House of Congress is supposed to be nearer to the people? Why?
7. Is Congress in session at present? Mention some important legislation which Congress considered last winter.
8. Give five powers of Congress.
9. How is the Governor of this State nominated? How elected?
10. What important political measure was voted on at the last April election? Was it carried or lost?
11. Name the county officers and the principal duties of one of them.

12. (a) What is the highest court of the State and who is the presiding officer?
    (b) Of the county, and who presides?
    (c) What other courts can you name?
13. (a) What is an expost facto law?
    (b) What is the veto power?
14. When will the State legislature next regularly convene? Who are the presiding officers in its two houses?
15. (a) When are the township elections held?
    (b) What officers are chosen?
    (c) Who constitute the township board of school inspectors?

## GEOGRAPHY.

1. Define meridian, poles, zone, and name the zones.
2. Define isotherm, glacier, plateau, cataract.
3. Name and locate five rivers of Michigan.
4. Name ten counties of Michigan.
5. Name the metal and mineral productions of Michigan.
6. Locate the "Soo" canal, Welland canal, Panama canal.
7. Name two exports from each of the following countries: Japan, India, Argentine, Cuba, France.
8. Where in the United States are coal, iron, gold and petroleum found?
9. What are the chief industries of the Southern states?
10. Name and locate a cape, a bay, an island, a sea.
11. Name and locate ten of the most important cities of the United States.
12. Name three cities, two rivers, three political divisions, and three productions of Canada.
13. Bound China and name three of its cities.
14. Name the river systems of South America.
15. Describe the Rocky Mountain system and name the ranges of which it is composed.

## GRAMMAR.

1. Write a complex sentence and analyze it.
2. Define adjective, infinitive, preposition.
3. Define comparison, declension, conjugation.
4. Illustrate four ways of forming the plurals of nouns.
5. Decline he, who.
6. Conjugate the verb fly in the past perfect tense, active voice, indicative mood.

7-8. Write a sentence or sentences using a predicate adjective, objective complement, infinitive used as a subject, adverb in comparative degree, a clause used as the object, conjunctive adverb. (Underscore each.)

9. How do we make the progressive and the emphatic forms of verbs?
10. Name the kinds of sentences according to form.
11. Give the grammatical use of the italicized words in the following: *To know how* ignorant we *are*, is the first *step toward* knowledge.
12. Parse *we*, *is*, *first* in foregoing sentence.
13. Define mood, tense, voice.
14. How may a verb usually transitive become intransitive?
15. What are the principal parts of a verb? Why so called?

## ORTHOGRAPHY.

1. Define orthorgaphy, accent, simple word, compound word.
2. Indicate by words and diacritical marks the several sounds of *i*, of *o*, of *e*.
3. Define root word, prefix, suffix and give examples.
4. Give two rules for doubling the final consonant in spelling.
5. What consonants have two or more sounds? Illustrate by proper use in words.
6. Use the following words in sentences: sweet, suite; heir, air; mane, main; ceil, seal; waste, waist.

## LIST OF WORDS.

1. biscuit
2. guitar
3. licorice
4. continent
5. descendant
6. fascinating
7. social
8. reprieve
9. worthiest
10. insatiable
11. efficient
12. commercial
13. sincerity
14. allegiance
15. accuracy
16. Genesee
17. Gogebic
18. Sault Ste. Marie
19. Keweenaw
20. Charlevoix
21. Leelanau
22. Algeciras
23. Morocco
24. Copenhagen
25. Mt. Vesuvius
26. Panama
27. Venezuela
28. syllable
29. celery
30. secede
31. biography
32. fuchsia
33. anemone
34. hepatica
35. petunia
36. significance
37. accessible
38. agriculture
39. milliner
40. lucrative
41. fascinate
42. inflexible
43. hygiene
44. cuticle
45. eligible
46. tuition
47. physician
48. maintenance
49. mosquito
50. individual

## PENMANSHIP.

1. Explain the following things to observe in writing:
   (a) Position of the pen, (b) position of arms, (c) position of feet.
2. Make all the small letters as nearly perfect as possible.
3. Give an illustration of some arm movement that you have practiced in school.

4-5. Write some poem or prose selection of not less than fifty words to show your handwriting.

## PHYSIOLOGY.

1. How is food changed and acted upon in the stomach? In the small intestines?
2. Describe the pulmonary circulation.
3. (a) Why does face powder harm the complexion?
   (b) What treatment would you recommend for the complexion?
4. State the uses of the skeleton. Illustrate.
5. Define ligament, tendon, cartilage, membrane, cuticle.
6. What is an involuntary muscle? Name three.
7. Locate and describe a hinge joint; sutures.
8. How is the spinal cord protected? What is its use?
9. (a) Name three drinks which contain alcohol.
   (b) Name three diseases caused by drinking alcohol.
   (c) Give three reasons why *you* do not wish to drink alcoholic stimulants.
10. How has nature protected the eye? Mention three habits which may injure the eyesight.
11. What organs are located in the abdominal cavity? Chest cavity?
12. State the importance of water as food; of salt.
13. What should be done for one who has been knocked senseless on the playground?
14. Give all the physical effects from running which make it a healthful exercise.
15. Define excretion. Name the excretory organs.

## READING.

### "Landing of the Pilgrims."

1. Give a brief sketch of the life of Mrs. Hemans.
2. Who were the Pilgrim Fathers?
3. Give the names of some of the men and women in this pilgrim band.

4. Tell of the voyage in the *Mayflower*.
5. (a) Where did the Pilgrims land?
   (b) Give in your own words a description of the scene and the welcome.
6. Quote a stanza which shows the character of these people.
7. Quote a stanza which shows the object of the founding of the colony.
8. Were the Pilgrims tolerant? How do you account for this?
9. Give the general reasons for the founding of most of the other colonies.
10. Give meaning of shrine, spoils, hoary, puritan, exiles, anthem, moor, aisles.
11. Mention some things in our character as a people and in the spirit of our nation for which we are indebted to the Pilgrims.
12. What is meter, rhyme? What is the meter of this poem?
13. (a) How is the landing place of the Pilgrims marked now?
    (b) How is their work commemorated?
14. What other stories of the Pilgrims have you read? Who were the authors?
15. Name some of the figures of speech contained in "Landing of the Pilgrims" and define each.

## UNITED STATES HISTORY.

1. How were the colonies governed?
2. What were the causes and results of King Philip's war?
3. What was the object of Burgoyne's campaign? Had you been an Englishman would this plan have seemed a good one? Why?
4. What was the Ordinance of 1787? How did it affect Michigan history?
5. Who was Benjamin Franklin? Patrick Henry? James Madison?
6. How did Perry's victory turn the scale of war?
7. What was the Wilmot proviso? Kansas-Nebraska bill?
8. Give a brief sketch of the life and services of Abraham Lincoln.
9. What was the most important naval battle of the Civil War? Most important land battle? Most important campaign? Most important siege? Name three generals of this war.
10. What was the Emancipation Proclamation? How did it affect the war?
11. What difficulties were encountered in the Reconstruction period?
12. When and how did the Hawaiian Islands become a part of the United States? Why is their possession an advantage to the United States?
13. What is the Monroe Doctrine? Why is this of importance at the present time?
14. Define treason, embargo, blockade, arbitration, tariff.
15. State an important event of the past year concerning Russia, Japan, China, Denmark, United States.

# EDUCATIONAL FUNDS

AND REPORT OF

# UNIVERSITY OF MICHIGAN

# EDUCATIONAL FUNDS.

## PRIMARY SCHOOL FUNDS.

| | | |
|---|---|---|
| *Seven per cent fund:* | | |
| Amount on which state pays interest, June 30, 1906 | $4,240,692 15 | |
| Due from purchasers of land, June 30, 1906...... | 94,299 55 | |
| Total seven per cent fund, June 30, 1906.................. | | $4,334,991 70 |
| *Five per cent fund:* | | |
| Amount on which state pays interest, June 30, 1906............ | | 951,318 54 |
| Total school fund, June 30, 1906............................ | | $5,286,310 24 |

## INCOME ON PRIMARY SCHOOL INTEREST FUND.

| | | |
|---|---|---|
| Interest paid by state on seven per cent fund during year ending June 30, 1906.......................... | $296,848 45 | |
| Interest and penalty paid by holders of land on seven per cent fund during year ending June 30, 1906.... | 4,547 19 | |
| Interest paid by state on five per cent fund........... | 47,565 93 | |
| Total income from both funds............................ | | $348,961 57 |
| Surplus of specific taxes transferred................. | $784,761 52 | |
| Paid by trespassers on school land.................. | 149 50 | |
| Total ................................................ | | 784,911 02 |
| Total income for year ending June 30, 1906................ | | $1,133,872 59 |

## UNIVERSITY FUND.

| | | |
|---|---|---|
| Amount on which state pays interest, June 30, 1906... | $543,678 15 | |
| Interest paid by state (on land grant)............................ | | $38,037 51 |
| Interest paid by state on deposit ................................ | | 50 00 |
| Interest and penalty paid by holders of land...................... | | 556 98 |
| Total income for year ending June 30, 1906................ | | $38,644 49 |

## AGRICULTURAL COLLEGE FUND.

| | | |
|---|---|---|
| Amount on which state pays interest, June 30, 1906.. | $973,336 49 | |
| Interest paid by state .......................................... | | $67,836 14 |
| Interest and penalty paid by holders of land...................... | | 2,521 63 |
| Paid by trespassers on lands ..................................... | | 35 50 |
| Received from United States government............................ | | 25,000 00 |
| Total income for the year ending June 30, 1906............ | | $95,393 27 |

### NORMAL SCHOOL FUND.

| | | |
|---|---|---|
| Amount on which state pays interest, June 30, 1906.. | $68,779 79 | |
| Interest paid by state | | $4,117 20 |
| Interest and penalty paid by holders of lands | | 57 41 |
| Total income for year ending June 30, 1906 | | $4,174 61 |

## UNIVERSITY OF MICHIGAN.

*The Treasurer's report for the fiscal year ending June 30, 1906.*

The following summaries show the sources of income and the purpose for which expenditures were made:

### GENERAL ACCOUNT.

#### INCOME.

| | |
|---|---|
| Balance in treasury, July 1, 1905 | $34,779 52 |
| State Treasurer— | |
| ¼ mill tax and appropriations | 330,620 00 |
| ¼ mill tax, building fund | 80,000 00 |
| University interest | 38,578 19 |
| Miscellaneous sources | 251,486 81 |
| Total income | $735,464 52 |

#### EXPENDITURES.

| | |
|---|---|
| General fund | $583,845 15 |
| Building fund | 65,967 08 |
| Total expenditures | $649,812 23 |
| Balance in treasury, June 30, 1906 | 85,652 29 |
| Total | $735,464 52 |

### CONDENSED STATEMENT GENERAL FUND ACCOUNT.

#### INCOME.

| | |
|---|---|
| Balance of fund, July 1, 1905 | $75,171 93 |
| State treasurer | 354,198 19 |
| Student fees | 233,207 79 |
| Interest on bank deposits | 1,352 19 |
| Net income of laboratories, etc. | 12,854 11 |
| Unclassified | 4,072 72 |
| Total | $680,856 93 |

#### EXPENDITURES.

| | |
|---|---|
| Salaries | $445,767 42 |
| Departmental expenses | 16,143 64 |
| General expenses | 90,375 58 |
| Net expenses of laboratories, etc | 12,664 63 |
| Books for libraries | 18,893 88 |
| Balance of fund June 30, 1906 | 97,011 78 |
| Total | $680,856 93 |

## INCOME TO GENERAL FUND ACCOUNTS.

| | | | |
|---|---|---|---|
| Balance in treasury, July 1, 1905 | | $34,779 52 | |
| Net amount due from special accounts, July 1, 1905 | | 40,392 41 | |
| | | | $75,171 93 |
| State Treasurer— | | | |
| ¼ mill tax | | $315,620 00 | |
| University interest | | 38,578 10 | |
| | | | $354,198 19 |
| Students' annual fees and matriculation— | | | |
| Literary department | | $63,595 00 | |
| Engineering department | | 63,122 50 | |
| Medical department | | 17,997 50 | |
| Law department | | 52,087 00 | |
| Homœopathic department | | 4,870 00 | |
| Dental department | | 7,520 00 | |
| Pharmacy department | | 4,330 00 | |
| Summer school fees— | | | |
| Literary department | | 7,650 00 | |
| Medical department | | 1,220 00 | |
| Law department | | 2,465 00 | |
| Combined courses | | 1,216 00 | |
| Diplomas—net receipts | $8,760 00 | | |
| expenses | 1,625 21 | | |
| | | 7,134 79 | |
| | | | $233,207 79 |
| Interest on bank deposit | | | 1,352 19 |

### NET INCOME OF LABORATORIES, SHOPS, ETC.

| | | | | |
|---|---|---|---|---|
| Literary department: | | | | |
| Chemical laboratory— | | | | |
| Net receipts | | $11,499 05 | | |
| Expenses | | 10,893 17 | | |
| | | | $605 88 | |
| Political economy laboratory | | | 34 50 | |
| | | | | $640 38 |
| Medical department: | | | | |
| University hospital— | | | | |
| Receipts | | $60,170 28 | | |
| Expenses | $41,608 68 | | | |
| Pay-roll | 15,300 78 | | | |
| | | 56,909 46 | | |
| | | | $3,260 82 | |
| Anatomical Laboratory— | | | | |
| Receipts | | $2,865 00 | | |
| Expenses | $494 47 | | | |
| Materials | 2,085 81 | | | |
| | | 2,580 28 | | |
| | | | 284 72 | |
| Histological Laboratory— | | | | |
| Net receipts | | $1,351 00 | | |
| Expenses | | 771 47 | | |
| | | | 579 53 | |
| Pharmacological laboratory— | | | | |
| Net receipts | | | 540 00 | |
| Medical demonstrations— | | | | |
| Net receipts | | | 2,930 00 | |
| Pasteur Institute— | | | | |
| Net receipts | | $2,725 00 | | |
| Expenses | | 1,233 79 | | |
| | | | 1,491 21 | |
| | | | | 9,086 28 |

| | | | | |
|---|---|---|---|---|
| Dental department: | | | | |
| Operating rooms— | | | | |
| Net receipts | $4,195 10 | | | |
| Expenses and supplies | 3,813 28 | | | |
| | | $381 82 | | |
| | | | $381 82 | |
| Gymnasium—Waterman— | | | | |
| Net receipts | $3,001 50 | | | |
| Expenses | 714 58 | | | |
| | | $2,286 92 | | |
| | | | 2,286 92 | |
| Printing Plant— | | | | |
| Printing for departments | $2,534 40 | | | |
| Cash received for work | 412 84 | | | |
| | | $2,947 24 | | |
| Materials and wages | $2,126 33 | | | |
| Salary for printer | 600 00 | | | |
| Work by bindery | 216 35 | | | |
| | | 2,942 68 | | |
| | | | 4 56 | |
| Deposits: | | | | |
| Drawing board— | | | | |
| Receipts | $2,454 00 | | | |
| Returned | 2,005 85 | | | |
| | | $448 15 | | |
| Keys— | | | | |
| Receipts | $323 00 | | | |
| Returned | 317 00 | | | |
| | | 6 00 | | |
| | | | 454 15 | |
| | | | | $12,854 11 |
| Unclassified income | | | $4,072 72 | |
| | | | | 4,072 72 |
| Total | | | | $680,856 93 |

## EXPENDITURE CHARGED TO GENERAL FUND ACCOUNTS.

| | | | |
|---|---|---|---|
| Salaries: | | | |
| General | $60,608 21 | | |
| Literary department | 147,072 50 | | |
| Engineering department | 84,399 99 | | |
| Law department | 48,741 90 | | |
| Medical department | 50,446 62 | | |
| Homœpathic department | 2,366 80 | | |
| Dental department | 11,910 99 | | |
| Pharmacy and chemical | 25,651 66 | | |
| Summer school | 14,568 75 | | |
| | | $445,767 42 | |
| | | | $445,767 42 |
| Departmental expenses: | | | |
| Literary department— | | | |
| Appointment committee | $220 63 | | |
| American history | 33 95 | | |
| Botanical garden | 275 15 | | |
| English | 146 01 | | |
| Forestry | 663 84 | | |
| French | 22 50 | | |
| Geology | 230 34 | | |
| German | 100 62 | | |
| Greek | 71 88 | | |
| History | 114 37 | | |
| Latin | 336 71 | | |

| | | | |
|---|---|---|---|
| Literary Department—*Continued.* | | | |
| Music | $136 99 | | |
| Observatory | 2,787 57 | | |
| Philosophy | 346 87 | | |
| Political economy | 178 40 | | |
| Rhetoric | 40 95 | | |
| Semitics | 19 75 | | |
| | | $5,726 53 | |
| Engineering department— | | | |
| General expenses | $1,617 31 | | |
| Architecture | 13 60 | | |
| Civil engineering | 1,565 76 | | |
| Naval architecture | 231 87 | | |
| | | 3,428 54 | |
| Law department— | | | |
| General expenses | $1,020 97 | | |
| | | 1,020 97 | |
| Medical department— | | | |
| General expenses | $493 10 | | |
| Dermatology | 50 70 | | |
| Materia medica | 555 75 | | |
| Nervous diseases | 265 42 | | |
| Ophthalmology | 499 73 | | |
| Otology | 914 39 | | |
| Surgery | 458 02 | | |
| Theory and practice | 992 54 | | |
| | | 4,229 65 | |
| Homœpathic medical department— | | | |
| General expenses | $409 95 | | |
| | | 409 95 | |
| Summer school— | | | |
| Expenses | $1,328 00 | | |
| | | 1,328 00 | |
| | | | $16,143 64 |
| General university expenses: | | | |
| Advertising and printing | | $2,967 20 | |
| Alumni association | | 1,400 00 | |
| Care of teams | | 1,775 62 | |
| Carpenter shop supplies | | 992 95 | |
| Commencement expenses | | 896 19 | |
| Contingent expenses | | 11,517 98 | |
| Electrical supplies | | 1,466 77 | |
| Fuel | | 26,247 91 | |
| General library: | | | |
| Expenses | $2,196 74 | | |
| Pay-roll | 13,699 69 | | |
| | | 15,896 43 | |
| Heating supplies | | 2,791 41 | |
| Laundry: | | | |
| Expenses not apportioned | $624 42 | | |
| Less cash rec. for services | 157 74 | | |
| | | 466 68 | |
| Lights (gas in laboratories) | | 2,430 40 | |
| Museum | | 404 22 | |
| Oratorical association | | 50 00 | |
| Postage | | 1,560 39 | |
| Repairs | | 16,385 98 | |
| School inspection | | 680 75 | |
| Water supply | | 2,444 70 | |
| | | | $90,375 58 |
| Net expenses of laboratories, etc.: | | | |
| Literary department: | | | |
| Botanical laboratory: | | | |
| Expenses | $794 91 | | |
| Net receipts | 722 00 | | |
| | | $72 91 | |

| | | | | | |
|---|---|---|---|---|---|
| Mineralogical laboratory: | | | | | |
| Expenses | | $448 35 | | | |
| Net receipts | | 351 85 | $96 50 | | |
| Zoological laboratory: | | | | | |
| Expenses | | $915 05 | | | |
| Net receipts | | 569 00 | 346 05 | $515 46 | |
| Engineering department: | | | | | |
| Electrical engineering laboratory and physical: | | | | | |
| Expenses | | $2,781 13 | | | |
| Net receipts | | 1,390 00 | $1,391 13 | | |
| Mechanical engineering laboratory: | | | | | |
| Expenses | $3,467 84 | | | | |
| Shop wages | 5,073 11 | $8,540 95 | | | |
| Net receipts | | 6,521 62 | 2,019 33 | 3,410 46 | |
| Medical department: | | | | | |
| Electrotherapeutics: | | | | | |
| Expenses | | $581 31 | | | |
| Net receipts | | 364 50 | $216 81 | | |
| Hygiene: | | | | | |
| Expenses | | $5,062 81 | | | |
| Net receipts | | 3,652 08 | 1,410 73 | | |
| Pathological laboratory: | | | | | |
| Expenses | | $1,075 99 | | | |
| Net receipts | | 541 25 | 534 74 | | |
| Physiological laboratory: | | | | | |
| Expenses | | $682 04 | | | |
| Net receipts | | 518 95 | 163 09 | | |
| Psychopathic hospital ward: | | | | | |
| Advanced | | $2,000 00 | 2,000 00 | 4,325 37 | |
| Homœopathic department: | | | | | |
| Hospital: | | | | | |
| Expenses | $18,627 62 | | | | |
| Pay-roll | 8,001 00 | $26,628 62 | | | |
| Net receipts | | 22,350 93 | $4,277 69 | 4,277 69 | |
| Barbour gymnasium: | | | | | |
| Expenses | | $837 65 | | | |
| Net receipts | | 702 00 | $135 65 | 135 65 | $12,664 63 |

| | | | | |
|---|---|---|---|---|
| Permanent equipment— | | | | |
| Books: | | | | |
| General library: | | | | |
| Paid | $11,839 83 | | | |
| Duplicates sold | 95 25 | | | |
| | | $11,744 58 | | |
| Law library | | 4,868 51 | | |
| Medical library | | 1,866 12 | | |
| Homœopathic library | | 185 62 | | |
| Dental library | | 229 05 | | |
| | | | $18,893 88 | |
| | | | | $18,893 88 |
| Total expenditures—General fund accounts | | | | $583,845 15 |
| Balance of general fund, June 30, 1906 | | | $97,011 78 | 97,011 78 |
| Amount advanced to special accounts | | | 11,359 49 | |
| Cash in general fund account, June 30, 1906 | | | $85,652 29 | |
| Total | | | | $680,856 93 |

## CONDENSED STATEMENT SPECIAL FUND ACCOUNTS.

RECEIPTS.

| | |
|---|---|
| State Treasurer | $95,000 00 |
| Net advances, June 30, 1906 | 11,359 49 |
| | $106,359 49 |

DISBURSEMENTS.

| | |
|---|---|
| Vouchers paid | $65,967 08 |
| Net advances, July 1, 1905 | 40,392 41 |
| | $106,359 49 |

## DETAILED STATEMENT OF SPECIAL FUND ACCOUNTS.

### *Homœopathic Medical College.*

RECEIPTS.

| | | |
|---|---|---|
| From state treasurer | $12,000 00 | |
| | | $12,000 00 |

DISBURSEMENTS.

| | | |
|---|---|---|
| Balance advanced, July 1, 1905 | $300 95 | |
| Paid vouchers | 10,235 91 | |
| Balance in treasury, June 30, 1906 | 1,463 14 | |
| | | 12,000 00 |

### *Summer Hospitals.*

RECEIPTS.

| | | |
|---|---|---|
| From state treasurer | $3,000 00 | |
| | | $3,000 00 |

DISBURSEMENTS.

| | | |
|---|---|---|
| Paid vouchers | $3,000 00 | |
| | | $3,000 00 |

### *Psychopathic Hospital Ward.*

RECEIPTS.

| | | |
|---|---|---|
| Balance advanced, June 30, 1906 | $9,356 63 | |
| | | $9,356 63 |

DISBURSEMENTS.

| | | |
|---|---|---|
| Balance advanced, July 1, 1905 | $9,356 63 | |
| | | 9,356 63 |

### *Accumulation of Savings—New Engineering Building.*

RECEIPTS.

| | | |
|---|---|---|
| From state treasurer | $45,000 00 | |
| Balance advanced, June 30, 1906 | 7,629 10 | |
| | | $52,629 10 |

DISBURSEMENTS.

| | | |
|---|---|---|
| Balance advanced, July 1, 1905 | $32,964 69 | |
| Paid vouchers | 19,664 41 | |
| | | 52,629 10 |

### *Accumulation of Savings—New Medical Building.*

RECEIPTS.

| | | |
|---|---|---|
| Balance in treasury, July 1, 1905 | $4,066 81 | |
| | | $4,066 81 |

DISBURSEMENTS.

| | | |
|---|---|---|
| Balance in treasury, June 30, 1906 | $4,066 81 | |
| | | 4,066 81 |

### *Accumulation of Savings—Repairs to Woman's Gymnasium.*

RECEIPTS.

| | | |
|---|---|---|
| Balance in treasury, July 1, 1905 | $798 94 | |
| | | $798 94 |

DISBURSEMENTS.

| | | |
|---|---|---|
| Balance in treasury, June 30, 1906 | $798 94 | |
| | | 798 94 |

### *Accumulation of Savings—Addition to Physical Laboratory.*

RECEIPTS.

| | | |
|---|---|---|
| From state treasurer | $30,000 00 | |
| Balance advanced, June 30, 1906 | 866 78 | |
| | | $30,866 78 |

DISBURSEMENTS.

| | | |
|---|---|---|
| Balance advanced, July 1, 1905 | $2,635 89 | |
| Paid vouchers | 28,230 89 | |
| | | 30,866 78 |

### *Accumulation of Savings—Addition and Repairs to Observatory.*

RECEIPTS.

| | | |
|---|---|---|
| From state treasurer | $5,000 00 | |
| | | $5,000 00 |

DISBURSEMENTS.

| | | |
|---|---|---|
| Paid vouchers | $4,835 87 | |
| Balance in treasury, June 30, 1906 | 164 13 | |
| | | 5,000 00 |

## SUMMARY OF BALANCES—SPECIAL FUND ACCOUNTS, JUNE 30, 1906.

ADVANCES.

| | | |
|---|---|---|
| Psychopathic ward | $9,356 63 | |
| New engineering building | 7,629 10 | |
| Addition to physical laboratory | 866 78 | |
| | | $17,852 51 |

CREDIT BALANCES.

| | | |
|---|---|---|
| Homœopathic medical college | $1,463 14 | |
| New medical building | 4,066 81 | |
| Repairs to woman's gymnasium | 798 94 | |
| Addition and repair to observatory | 164 13 | |
| Net advances | 11,359 49 | |
| | | 17,852 51 |

## INVESTMENT DISTRIBUTION OF GIFT AND TRUST FUNDS.

| NAME. | Cash in Bank. | Loans or Property. | Total. |
|---|---|---|---|
| Alice Freeman Palmer Memorial | $1,081 48 | | $1,081 48 |
| Allopathic Hospital Fund | 246 86 | $2,000 00 | 2,246 86 |
| American School at Rome | 5 45 | | 5 45 |
| A. B. Whittier Botany Fellowship | 3 28 | 4,000 00 | 4,003 28 |
| Ann Arbor Branch Collegiate Alumnae | 1 20 | 150 00 | 151 20 |
| Bates Professorship Fund | 181 05 | 116,212 81 | 116,393 86 |
| Buhl Classical Fellowship | 55 43 | | 55 43 |
| Buhl Law Library Fund | 352 47 | | 352 47 |
| Chas. A. Kent Fund | 563 63 | | 563 63 |
| Class of '94 Scholarship | 336 22 | 1,650 00 | 1,986 22 |
| Class of '97 Scholarship | 73 46 | 130 00 | 203 46 |
| Class of '98 Scholarship | 297 88 | 142 00 | 439 88 |
| Class of '99 Law Scholarship | 34 64 | | 34 64 |
| Class of '03 Memorial | 147 73 | | 147 73 |
| English Book Fund | 371 20 | | 371 20 |
| Ford-Messer Fund | 360 56 | 21,700 00 | 22,060 56 |
| Gas Association Fund | 4 28 | | 4 28 |
| Goethe Fund | 218 60 | | 218 60 |
| Good Government Club | 796 94 | | 796 94 |
| Herbarium Expedition | 200 00 | | 200 00 |
| Humanistic Series Fund | 24 01 | | 24 01 |
| James B. Angell Fund | 284 48 | | 284 48 |
| Library Fund, Coyl Collection | 162 96 | 11,400 00 | 11,562 96 |
| L. H. Stone Supplementary Loan Fund | 113 79 | 5,325 00 | 5,438 79 |
| Marine Biological Fellowship | 50 00 | | 50 00 |
| McMillan Shakespeare Fund | 6 96 | | 6 96 |
| Morris Alumni Fund | 402 03 | 2,800 00 | 3,202 03 |
| Museum Expedition | 21 95 | | 21 95 |
| Music Hall Fund | 550 23 | 1,000 00 | 1,550 23 |
| Newton VanderVeer Loan Fund | 450 36 | | 450 36 |

| | Cash in Bank. | Loans or Property. | Total. |
|---|---|---|---|
| Palmer Memorial Free Bed | $52 29 | $15,535 16 | $15,587 45 |
| Parke, Davis & Co. Fund | 50 00 | | 50 00 |
| Peter White Fellowship American History | 894 67 | | 894 67 |
| Peter White Classical Fellowship | 300 00 | | 300 00 |
| Pittsburg Alumni Scholarship | 100 00 | | 100 00 |
| Philips Scholarship Fund | 929 03 | | 929 03 |
| Philo Parsons Fund | 132 94 | | 132 94 |
| Philosophy Library, Victoria Morris | 4 41 | | 4 41 |
| Saginaw Valley Alumnae Association School Fund | 60 | 160 00 | 160 60 |
| Seth Harrison Scholarship | 318 18 | 29,500 00 | 29,818 18 |
| Special Latin Fund | 2 82 | | 2 82 |
| Students' Lecture Association | 312 66 | 964 70 | 1,277 36 |
| Treadwell Free Bed | 87 | | 87 |
| Walter Crane Fund | 642 78 | 5,341 05 | 5,983 83 |
| Warner Fund | 1 40 | | 1 40 |
| Williams Professorship Fund | 1,823 74 | 18,701 68 | 20,525 42 |
| Wm. Wilson, Jr., Pharmacy Fund | 50 00 | | 50 00 |
| Woman's Gymnasium, Peter White | 100 75 | | 100 75 |
| Woman's Professorship Fund | 67 93 | 13,200 00 | 13,267 93 |
| Total | $13,184 20 | $249,912 40 | $263,096 60 |
| Alumni Memorial Building Fund | 66,215 49 | | 66,215 49 |
| Grand Total | $79,399 69 | $249,912 40 | $329,312 09 |

HENRY W. CAREY,
ARTHUR HILL,
Finance Committee.

# STATISTICAL TABLES.

# STATISTICAL TABLES.

## TABLE I.

*Comparative summary of statistics for the years 1905 and 1906.*

| Items. | 1905. | 1906. | Increase. | Decrease. |
|---|---|---|---|---|
| *Districts and schools.* | | | | |
| Number of townships and cities reporting | 1,302 | 1,303 | 1 | .............. |
| Number of graded school districts | 579 | 573 | .............. | 6 |
| Number of ungraded school districts | 6,688 | 6,721 | 33 | .............. |
| Total | 7,267 | 7,294 | 27 | .............. |
| Number of township unit districts | 135 | 138 | 3 | .............. |
| School census of graded school districts | 426,890 | 430,586 | 3,696 | .............. |
| School census of ungraded school districts | 316,294 | 317,301 | 1,007 | .............. |
| Total | 743,184 | 747,887 | 4,703 | .............. |
| Enrollment in graded school districts | 301,453 | 303,930 | 2,477 | .............. |
| Enrollment in ungraded school districts | 220,010 | 226,413 | 6,403 | .............. |
| Total | 521,463 | 530,343 | 8,880 | .............. |
| Enrollment in graded school districts: | | | | |
| Resident pupils | 301,453 | 303,930 | 2,477 | .............. |
| Non-resident pupils | 10,012 | 10,652 | 640 | .............. |
| Total | 311,465 | 314,582 | 3,117 | .............. |
| Enrollment in ungraded school districts: | | | | |
| Resident pupils | 220,010 | 226,413 | 6,403 | .............. |
| Non-resident pupils | 8,909 | 9,098 | 189 | .............. |
| Total | 228,919 | 235,511 | 6,592 | .............. |
| Enrollment in all school districts: | | | | |
| Resident pupils | 521,463 | 530,343 | 8,880 | .............. |
| Non-resident pupils | 18,921 | 19,750 | 829 | .............. |
| Total | 540,384 | 550,093 | 9,709 | .............. |

## TABLE II.

*Forty-second and forty-third semi-annual apportionments of the primary school interest fund.*

| Counties. | Apportionment made May 10, 1906, rate per capita $1.00. | | | Apportionment made November 10, 1906, rate per capita $11.00. | | |
|---|---|---|---|---|---|---|
| | Whole number of children. | Number children included in apportionment. | Amount apportioned. | Whole number of children. | Number children included in apportionment. | Amount apportioned. |
| Totals | 743,184 | 741,724 | $741,724 00 | 743,185 | 741,762 | $8,159,382 00 |
| Alcona | 2,075 | 2,047 | $2,047 00 | 2,075 | 2,068 | *f* $22,769 00 |
| Alger | 1,822 | 1,817 | 1,817 00 | 1,822 | 1,817 | 19,987 00 |
| Allegan | 11,770 | 11,758 | 11,758 00 | 11,780 | 11,768 | *g* 129,458 00 |
| Alpena | 6,862 | 6,846 | 6,846 00 | 6,862 | 6,862 | *h* 75,498 00 |
| Antrim | 4,961 | 4,941 | 4,941 00 | 4,961 | 4,941 | 54,351 00 |
| Arenac | 3,765 | 3,765 | 3,765 00 | 3,765 | 3,765 | 41,415 00 |
| Baraga | 1,821 | 1,821 | *a* 1,779 50 | 1,821 | 1,821 | *i* 19,574 50 |
| Barry | 5,865 | 5,847 | 5,847 00 | 5,865 | 5,847 | 64,317 00 |
| Bay | 22,366 | 22,366 | 22,366 00 | 22,366 | 22,366 | 246,026 00 |
| Benzie | 3,270 | 3,239 | 3,239 00 | 3,270 | 3,239 | 35,629 00 |
| Berrien | 14,466 | 14,455 | 14,455 00 | 14,466 | 14,455 | 159,005 00 |
| Branch | 6,412 | 6,412 | 6,412 00 | 6,395 | 6,395 | *j* 70,328 00 |
| Calhoun | 12,352 | 12,352 | 12,352 00 | 12,352 | 12,352 | 135,872 00 |
| Cass | 5,029 | 4,997 | 4,997 00 | 5,029 | 4,997 | 54,967 00 |
| Charlevoix | 5,367 | 5,353 | 5,353 00 | 5,367 | 5,353 | 58,883 00 |
| Cheboygan | 5,859 | 5,854 | 5,854 00 | 5,859 | 5,854 | 64,394 00 |
| Chippewa | 6,956 | 6,956 | 6,956 00 | 6,956 | 6,956 | 76,516 00 |
| Clare | 3,112 | 3,039 | 3,039 00 | 3,112 | 3,039 | 33,429 00 |
| Clinton | 6,666 | 6,666 | 6,666 00 | 6,666 | 6,666 | 73,326 00 |
| Crawford | 1,112 | 1,094 | 1,094 00 | 1,112 | 1,094 | 12,034 00 |
| Delta | 8,557 | 8,486 | 8,486 00 | 8,557 | 8,486 | 93,346 00 |
| Dickinson | 6,494 | 6,494 | 6,494 00 | 6,494 | 6,494 | 71,434 00 |
| Eaton | 7,174 | 7,147 | 7,147 00 | 7,174 | 7,147 | 78,617 00 |
| Emmet | 5,147 | 5,147 | 5,147 00 | 5,147 | 5,147 | 56,617 00 |
| Genesee | 10,833 | 10,833 | 10,833 00 | 10,833 | 10,833 | 119,163 00 |
| Gladwin | 3,042 | 3,017 | 3,017 00 | 3,042 | 3,017 | 33,187 00 |
| Gogebic | 5,692 | 5,667 | 5,667 00 | 5,692 | 5,667 | 62,337 00 |
| Grand Traverse | 6,324 | 6,324 | 6,324 00 | 6,324 | 6,324 | 69,564 00 |
| Gratiot | 8,495 | 8,450 | 8,450 00 | 8,495 | 8,441 | 92,851 00 |
| Hillsdale | 7,429 | 7,393 | *b* 7,370 00 | 7,429 | 7,393 | *k* 81,070 00 |
| Houghton | 24,142 | 24,142 | 24,142 00 | 24,142 | 24,142 | 265,562 00 |
| Huron | 12,704 | 12,704 | 12,704 00 | 12,704 | 12,704 | 139,744 00 |
| Ingham | 10,541 | 10,541 | 10,541 00 | 10,541 | 10,541 | 115,951 00 |
| Ionia | 8,790 | 8,777 | 8,777 00 | 8,790 | 8,777 | 96,547 00 |
| Iosco | 3,597 | 3,585 | 3,585 00 | 3,597 | 3,585 | 39,435 00 |
| Iron | 2,865 | 2,865 | 2,865 00 | 2,865 | 2,865 | 31,515 00 |
| Isabella | 7,405 | 7,405 | 7,405 00 | 7,405 | 7,405 | 81,455 00 |
| Jackson | 11,170 | 11,122 | 11,122 00 | 11,170 | 11,122 | 122,342 00 |
| Kalamazoo | 12,251 | 12,241 | 12,241 00 | 12,251 | 12,241 | 134,651 00 |
| Kalkaska | 2,228 | 2,228 | 2,228 00 | 2,228 | 2,228 | 24,508 00 |
| Kent | 39,291 | 39,228 | *c* 39,274 20 | 39,292 | 39,229 | *l* 431,520 00 |

*a* Less $41.50 for employing an unqualified teacher during year 1904-05.
*b* Less $23.00 for employing an unqualified teacher during year 1904-05.
*c* Includes $46.20 deficiency May and November, 1905.
*f* Includes $21.00 deficiency May, 1906.
*g* Includes $10.00 deficiency May, 1906.
*h* Includes $16.00 deficiency May, 1906.
*i* Less $456.50 for employing an unqualified teacher during year 1904-05.
*j* Less $17.00 overpaid May, 1906, to district disorganized.
*k* Less $253.00 for employing an unqualified teacher during year 1904-05.
*l* Includes $1.00 deficiency May, 1906.

## TABLE II.—Concluded.

| Counties. | Apportionment made May 10, 1906, rate per capita $1.00. | | | Apportionment made November 10, 1906, rate per capita $11.00. | | |
|---|---|---|---|---|---|---|
| | Whole number of children. | Number children included in apportionment. | Amount apportioned. | Whole number of children. | Number children included in apportionment. | Amount apportioned. |
| Keweenaw | 1,343 | 1,343 | $1,343 00 | 1,343 | 1,343 | $14,773 00 |
| Lake | 1,558 | 1,508 | 1,508 00 | 1,558 | 1,488 | 16,368 00 |
| Lapeer | 7,465 | 7,465 | 7,465 00 | 7,465 | 7,465 | 82,115 00 |
| Leelanau | 3,712 | 3,712 | 3,712 00 | 3,712 | 3,712 | 40,832 00 |
| Lenawee | 12,231 | 12,218 | 12,218 00 | 12,231 | 12,218 | 134,398 00 |
| Livingston | 4,773 | 4,705 | 4,705 00 | 4,773 | 4,705 | 51,755 00 |
| Luce | 870 | 870 | 870 00 | 870 | 870 | 9,570 00 |
| Mackinac | 2,667 | 2,499 | [d] 3,309 00 | 2,667 | 2,499 | 27,489 00 |
| Macomb | 10,485 | 10,485 | 10,485 00 | 10,485 | 10,485 | 115,335 00 |
| Manistee | 9,423 | 9,419 | 9,419 00 | 9,423 | 9,419 | 103,609 00 |
| Marquette | 13,229 | 13,229 | 13,229 00 | 13,229 | 13,229 | 145,519 00 |
| Mason | 6,607 | 6,607 | [e] 6,729 10 | 6,607 | 6,607 | 72,677 00 |
| Mecosta | 6,585 | 6,585 | 6,585 00 | 6,585 | 6,585 | 72,435 00 |
| Menominee | 9,604 | 9,524 | 9,524 00 | 9,604 | 9,524 | 104,764 00 |
| Midland | 4,984 | 4,971 | 4,971 00 | 4,984 | 4,971 | 54,681 00 |
| Missaukee | 3,472 | 3,443 | 3,443 00 | 3,472 | 3,472 | [m] 38,221 00 |
| Monroe | 9,915 | 9,915 | 9,915 00 | 9,915 | 9,915 | 109,065 00 |
| Montcalm | 10,216 | 10,203 | 10,203 00 | 10,216 | 10,203 | 112,233 00 |
| Montmorency | 1,124 | 1,124 | 1,124 00 | 1,124 | 1,124 | 12,364 00 |
| Muskegon | 12,390 | 12,370 | 12,370 00 | 12,390 | 12,370 | 136,070 00 |
| Newaygo | 6,137 | 6,137 | 6,137 00 | 6,137 | 6,137 | 67,507 00 |
| Oakland | 10,950 | 10,835 | 10,835 00 | 10,950 | 10,835 | 119,185 00 |
| Oceana | 5,598 | 5,577 | 5,577 00 | 5,598 | 5,577 | 61,347 00 |
| Ogemaw | 3,068 | 3,068 | 3,068 00 | 3,068 | 3,068 | 33,748 00 |
| Ontonagon | 2,185 | 2,185 | 2,185 00 | 2,185 | 2,185 | 24,035 00 |
| Osceola | 6,089 | 6,089 | 6,089 00 | 6,089 | 6,089 | 66,979 00 |
| Oscoda | 596 | 570 | 570 00 | 596 | 570 | 6,270 00 |
| Otsego | 2,177 | 2,165 | 2,165 00 | 2,177 | 2,165 | 23,815 00 |
| Ottawa | 13,596 | 13,596 | 13,596 00 | 13,596 | 13,596 | 149,556 00 |
| Presque Isle | 3,535 | 3,499 | 3,499 00 | 3,535 | 3,499 | 38,489 00 |
| Roscommon | 562 | 476 | 476 00 | 562 | 476 | 5,236 00 |
| Saginaw | 26,910 | 26,910 | 26,910 00 | 26,910 | 26,910 | 296,010 00 |
| St. Clair | 16,574 | 16,574 | 16,574 00 | 16,574 | 16,574 | 182,314 00 |
| St. Joseph | 5,966 | 5,966 | 5,966 00 | 5,966 | 5,966 | 65,626 00 |
| Sanilac | 11,835 | 11,835 | 11,835 00 | 11,839 | 11,839 | [n] 130,233 00 |
| Schoolcraft | 2,584 | 2,574 | 2,574 00 | 2,584 | 2,574 | 28,314 00 |
| Shiawassee | 8,523 | 8,512 | 8,512 00 | 8,523 | 8,512 | 93,632 00 |
| Tuscola | 10,805 | 10,805 | 10,805 00 | 10,805 | 10,805 | 118,855 00 |
| Van Buren | 9,727 | 9,727 | 9,727 00 | 9,723 | 9,723 | [o] 106,949 00 |
| Washtenaw | 11,713 | 11,698 | 11,698 00 | 11,720 | 11,705 | [p] 128,762 00 |
| Wayne | 109,751 | 109,751 | 109,751 00 | 109,751 | 109,751 | 1,207,261 00 |
| Wexford | 5,571 | 5,559 | 5,559 00 | 5,571 | 5,559 | 61,149 00 |

---

[d] Includes $810.00 deficiency May and November, 1905.

[e] Includes $122.10 deficiency May and November, 1905.

[m] Includes $29.00 deficiency May, 1906.

[n] Includes $4.00 deficiency May, 1906.

[o] Less $4.00 overpaid May, 1906, for children included twice.

[p] Includes $7.00 deficiency May, 1906.

# TABLE III.

*General school statistics as reported by school inspectors for the year ending July 9, 1906.*

| Counties. | Number of townships and cities reporting. | Whole number of school districts. | Number of districts that maintained school. | Number of graded school districts. | Number of township unit districts. | Number of children 5 years of age and under 20. | Number of children 5 years of age and under 20 that attended school during the year. | Whole number of days of school. | Percentage of attendance. | Number of schoolhouses. | Estimated value of school property. | Number of schoolhouses to be built during ensuing year. | Average number months of school. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Totals | 1,303 | 7,294 | 7,235 | 573 | 138 | 747,887 | 530,343 | 1,224,818 | 69 | 8,331 | $27,593,590 | 175 | 8.5 |
| Alcona | 11 | 34 | 33 | 1 | 3 | 2,093 | 1,504 | 5,526 | 59 | 34 | $31,275 | 4 | 8.4 |
| Alger | 8 | 8 | 8 | 2 | 8 | 1,998 | 1,573 | 1,368 | 80 | 33 | 50,716 | 4 | 8.6 |
| Allegan | 24 | 185 | 184 | 15 | ...... | 11,646 | 8,995 | 30,994 | 69 | 194 | 285,991 | 2 | 8.4 |
| Alpena | 8 | 19 | 19 | 1 | 5 | 6,661 | 3,813 | 3,030 | 70 | 68 | 117,775 | ...... | 7.9 |
| Antrim | 15 | 71 | 70 | 6 | ...... | 4,873 | 4,120 | 11,581 | 66 | 77 | 145,210 | 1 | 8.3 |
| Arenac | 11 | 41 | 41 | 6 | ...... | 3,744 | 2,871 | 6,997 | 66 | 42 | 48,965 | 1 | 8.5 |
| Baraga | 5 | 5 | 5 | 2 | 5 | 1,877 | 1,254 | 955 | 68 | 23 | 41,191 | 1 | 9.6 |
| Barry | 17 | 144 | 144 | 5 | ...... | 5,804 | 4,542 | 24,099 | 74 | 147 | 189,065 | ...... | 8.4 |
| Bay | 15 | 70 | 70 | 3 | 1 | 22,832 | 2,199 | 12,430 | 66 | 92 | 692,825 | 1 | 8.9 |
| Benzie | 12 | 52 | 52 | 6 | ...... | 3,273 | 2,720 | 7,992 | 70 | 53 | 84,750 | ...... | 7.7 |
| Berrien | 23 | 149 | 148 | 19 | ...... | 14,716 | 10,933 | 23,809 | 75 | 160 | 451,920 | ...... | 8 |
| Branch | 17 | 127 | 126 | 5 | ...... | 6,460 | 5,110 | 21,330 | 73 | 131 | 259,275 | ...... | 8.5 |
| Calhoun | 23 | 164 | 164 | 8 | ...... | 12,464 | 9,612 | 28,188 | 74 | 183 | 780,384 | 1 | 8.5 |
| Cass | 16 | 112 | 112 | 5 | ...... | 4,998 | 4,010 | 18,641 | 72 | 114 | 197,236 | ...... | 8.3 |
| Charlevoix | 15 | 68 | 67 | 5 | ...... | 5,462 | 4,280 | 10,188 | 68 | 74 | 161,771 | 1 | 7.7 |
| Cheboygan | 18 | 56 | 56 | 3 | 3 | 5,899 | 4,240 | 8,949 | 64 | 75 | 133,934 | 1 | 7.9 |
| Chippewa | 15 | 56 | 56 | 4 | 8 | 7,245 | 5,318 | 9,206 | 66 | 84 | 297,834 | 3 | 8.2 |
| Clare | 17 | 67 | 60 | 3 | ...... | 3,313 | 2,445 | 8,894 | 68 | 61 | 74,090 | 4 | 7.4 |
| Clinton | 17 | 129 | 129 | 7 | ...... | 6,593 | 4,931 | 22,179 | 69 | 130 | 193,155 | ...... | 8.6 |
| Crawford | 5 | 27 | 23 | 1 | ...... | 1,205 | 1,022 | 2,661 | 69 | 26 | 35,846 | ...... | 5.8 |
| Delta | 15 | 31 | 30 | 2 | 8 | 9,036 | 6,384 | 4,854 | 72 | 72 | 208,323 | 8 | 8. |
| Dickinson | 8 | 8 | 8 | 2 | 6 | 6,612 | 4,853 | 1,576 | 87 | 36 | 276,750 | 4 | 9.8 |
| Eaton | 18 | 145 | 145 | 10 | ...... | 7,271 | 5,815 | 24,727 | 74 | 155 | 217,850 | ...... | 8.4 |
| Emmet | 16 | 73 | 73 | 5 | ...... | 5,423 | 3,959 | 11,279 | 67 | 77 | 137,160 | 1 | 7.7 |
| Genesee | 20 | 157 | 157 | 11 | ...... | 10,698 | 8,273 | 27,510 | 69 | 166 | 530,480 | ...... | 8.7 |
| Gladwin | 13 | 49 | 49 | 3 | 2 | 3,087 | 2,370 | 7,819 | 64 | 52 | 67,705 | 1 | 7.9 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gogebic | 7 | 7 | 7 | 3 | 5 | 6,080 | 4,945 | 1,329 | 85 | 33. | 299,800 | 4 | 9.5 |
| Grand Traverse | 14 | 68 | 68 | 3 | ...... | 6,316 | 5,454 | 10,553 | 69 | 74 | 230,650 | ........ | 7.7 |
| Gratiot | 19 | 132 | 131 | 11 | ...... | 8,523 | 6,901 | 21,798 | 71 | 136 | 224,095 | ........ | 8.3 |
| Hillsdale | 19 | 163 | 161 | 14 | ...... | 7,396 | 5,935 | 27,968 | 70 | 168 | 343,775 | 2 | 8.7 |
| Houghton | 15 | 35 | 35 | 8 | 4 | 24,514 | 16,915 | 6,594 | 78 | 103 | 572,434 | 7 | 9.4 |
| Huron | 27 | 119 | 118 | 19 | ...... | 12,339 | 8,784 | 21,583 | 64 | 120 | 214,375 | 3 | 9.1 |
| Ingham | 17 | 137 | 137 | 11 | ...... | 10,709 | 8,169 | 23,835 | 70 | 152 | 393,015 | 2 | 8.7 |
| Ionia | 18 | 141 | 141 | 11 | ...... | 8,809 | 6,586 | 24,506 | 69 | 149 | 254,121 | 1 | 8.6 |
| Iosco | 13 | 30 | 30 | 7 | 1 | 3,559 | 2,533 | 5,144 | 66 | 37 | 50,890 | 1 | 8.5 |
| Iron | 7 | 7 | 7 | 4 | 7 | 3,059 | 2,399 | 1,312 | 73 | 36 | 146,375 | 1 | 9.4 |
| Isabella | 17 | 105 | 105 | 3 | ...... | 7,345 | 4,848 | 17,348 | 63 | 108 | 137,150 | 1 | 8.3 |
| Jackson | 20 | 156 | 153 | 9 | ...... | 11,116 | 7,831 | 26,657 | 74 | 171 | 479,115 | 1 | 8.7 |
| Kalamazoo | 17 | 136 | 136 | 9 | ...... | 12,984 | 9,438 | 23,007 | 74 | 147 | 790,050 | 1 | 8.5 |
| Kalkaska | 11 | 51 | 51 | 2 | ...... | 2,263 | 1,894 | 8,032 | 64 | 50 | 65,600 | 1 | 7.8 |
| Kent | 25 | 206 | 204 | 16 | ...... | 39,833 | 25,142 | 35,682 | 65 | 246 | 1,725,170 | 1 | 8.7 |
| Keweenaw | 5 | 5 | 5 | ...... | 3 | 1,451 | 1,095 | 955 | 60 | 11 | 39,500 | 1 | 9.5 |
| Lake | 11 | 43 | 41 | 3 | ...... | 1,513 | 1,269 | 5,856 | 68 | 43 | 33,125 | ........ | 7.1 |
| Lapeer | 19 | 134 | 134 | 11 | ...... | 7,403 | 5,663 | 23,641 | 68 | 137 | 184,300 | 2 | 8.8 |
| Leelanau | 11 | 58 | 58 | 6 | ...... | 3,710 | 2,675 | 8,243 | 63 | 57 | 60,825 | 1 | 7.1 |
| Lenawee | 24 | 196 | 194 | 13 | ...... | 12,225 | 9,150 | 34,107 | 74 | 207 | 507,683 | 1 | 8.7 |
| Livingston | 16 | 136 | 134 | 4 | ...... | 4,801 | 3,741 | 22,776 | 67 | 138 | 157,425 | 2 | 8.5 |
| Luce | 4 | 4 | 4 | 1 | 4 | 939 | 832 | 730 | 67 | 15 | 24,500 | 2 | 9.1 |
| Mackinac | 13 | 13 | 13 | 2 | 11 | 2,648 | 1,841 | 2,019 | 74 | 45 | 50,300 | 9 | 7.7 |
| Macomb | 15 | 113 | 113 | 13 | ...... | 9,978 | 6,588 | 20,117 | 66 | 120 | 282,565 | ........ | 8.8 |
| Manistee | 13 | 64 | 64 | 7 | ...... | 9,142 | 5,545 | 10,379 | 67 | 70 | 210,075 | 2 | 8.1 |
| Marquette | 21 | 21 | 21 | 6 | 18 | 13,582 | 9,401 | 3,875 | 72 | 77 | 674,350 | 2 | 9.2 |
| Mason | 15 | 64 | 64 | 3 | ...... | 6,700 | 4,651 | 10,255 | 69 | 73 | 235,000 | 4 | 8. |
| Mecosta | 17 | 108 | 108 | 7 | ...... | 6,549 | 5,049 | 17,395 | 67 | 110 | 130,300 | 2 | 8. |
| Menominee | 11 | 40 | 40 | 2 | 6 | 9,789 | 6,498 | 6,511 | 73 | 90 | 264,620 | 6 | 8.1 |
| Midland | 17 | 80 | 79 | 4 | ...... | 4,787 | 3,742 | 12,860 | 63 | 83 | 105,325 | 1 | 8.1 |
| Missaukee | 14 | 62 | 60 | 5 | ...... | 3,687 | 2,936 | 9,456 | 62 | 62 | 80,295 | 6 | 7.9 |
| Monroe | 16 | 138 | 138 | 5 | ...... | 9,898 | 6,790 | 23,681 | 67 | 142 | 204,640 | ........ | 8.6 |
| Montcalm | 22 | 142 | 142 | 12 | ...... | 10,038 | 7,721 | 24,232 | 70 | 146 | 201,770 | ........ | 8.5 |
| Montmorency | 7 | 8 | 8 | 1 | 6 | 1,166 | 880 | 1,287 | 64 | 29 | 20,775 | 2 | 8. |
| Muskegon | 19 | 91 | 90 | 9 | ...... | 12,076 | 9,914 | 14,574 | 69 | 110 | 1,812,951 | ........ | 8. |
| Newaygo | 22 | 118 | 117 | 5 | ...... | 6,147 | 4,910 | 18,010 | 66 | 118 | 133,845 | 3 | 7 6 |
| Oakland | 26 | 201 | 199 | 15 | ...... | 10,942 | 8,424 | 34,540 | 70 | 209 | 594,190 | ........ | 8.7 |
| Oceana | 16 | 91 | 90 | 3 | ...... | 5,474 | 4,367 | 14,413 | 70 | 90 | 121,973 | 2 | 8. |
| Ogemaw | 13 | 48 | 47 | 3 | 1 | 3,144 | 2,324 | 7,902 | 65 | 49 | 55,100 | 2 | 8.4 |
| Ontonagon | 10 | 10 | 10 | 4 | 10 | 2,594 | 2,085 | 1,806 | 77 | 44 | 105,918 | 3 | 9. |
| Osceola | 16 | 93 | 93 | 6 | ...... | 6,092 | 4,683 | 15,449 | 66 | 95 | 125,735 | 2 | 8.3 |
| Oscoda | 3 | 18 | 14 | ...... | 1 | 714 | 537 | 1,942 | 67 | 23 | 9,761 | 6 | 6.9 |
| Otsego | 9 | 36 | 35 | 4 | 1 | 2,270 | 1,764 | 5,380 | 65 | 41 | 56,700 | 1 | 7.6 |
| Ottawa | 17 | 124 | 123 | 23 | ...... | 13,972 | 10,021 | 21,601 | 75 | 131 | 319,050 | 4 | 8.7 |

## TABLE III.

*General school statistics as reported by school inspectors for the year ending July 9, 1906.*

| Counties. | Number of townships and cities reporting. | Whole number of school districts. | Number of districts that maintained school. | Number of graded school districts. | Number of township unit districts. | Number of children 5 years of age and under 20. | Number of children 5 years of age and under 20 that attended school during the year. | Whole number of days of school. | Percentage of attendance. | Number of schoolhouses. | Estimated value of school property. | Number of schoolhouses to be built during ensuing year. | Average number months of school. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Totals | 1,303 | 7,294 | 7,235 | 573 | 138 | 747,887 | 530,343 | 1,224,818 | 69 | 8,331 | $27,593,590 | 175 | 8.5 |
| Alcona | 11 | 34 | 33 | 1 | 3 | 2,093 | 1,504 | 5,526 | 59 | 34 | $31,275 | 4 | 8.4 |
| Alger | 8 | 8 | 8 | 2 | 8 | 1,998 | 1,573 | 1,368 | 80 | 33 | 50,716 | 4 | 8.6 |
| Allegan | 24 | 185 | 184 | 15 | ...... | 11,646 | 8,995 | 30,994 | 69 | 194 | 285,991 | 2 | 8.4 |
| Alpena | 8 | 19 | 19 | 1 | 5 | 6,661 | 3,813 | 3,030 | 70 | 68 | 117,775 | ........ | 7.9 |
| Antrim | 15 | 71 | 70 | 6 | ...... | 4,873 | 4,120 | 11,581 | 66 | 77 | 145,210 | 1 | 8.3 |
| Arenac | 11 | 41 | 41 | 6 | ...... | 3,744 | 2,871 | 6,997 | 66 | 42 | 48,965 | 1 | 8.5 |
| Baraga | 5 | 5 | 5 | 2 | 5 | 1,877 | 1,254 | 955 | 68 | 23 | 41,191 | 1 | 9.6 |
| Barry | 17 | 144 | 144 | 5 | ...... | 5,804 | 4,542 | 24,099 | 74 | 147 | 189,065 | ........ | 8.4 |
| Bay | 15 | 70 | 70 | 3 | 1 | 22,832 | 12,199 | 12,430 | 66 | 92 | 692,825 | 1 | 8.9 |
| Benzie | 12 | 52 | 52 | 6 | ...... | 3,273 | 2,720 | 7,992 | 70 | 53 | 84,750 | ........ | 7.7 |
| Berrien | 23 | 149 | 148 | 19 | ...... | 14,716 | 10,933 | 23,809 | 75 | 160 | 451,920 | ........ | 8 |
| Branch | 17 | 127 | 126 | 5 | ...... | 6,460 | 5,110 | 21,330 | 73 | 131 | 259,275 | ........ | 8.5 |
| Calhoun | 23 | 164 | 164 | 8 | ...... | 12,464 | 9,612 | 28,188 | 74 | 183 | 780,384 | 1 | 8.5 |
| Cass | 16 | 112 | 112 | 5 | ...... | 4,998 | 4,010 | 18,641 | 72 | 114 | 197,236 | ........ | 8.3 |
| Charlevoix | 15 | 68 | 67 | 5 | ...... | 5,462 | 4,280 | 10,188 | 68 | 74 | 161,771 | 1 | 7.7 |
| Cheboygan | 18 | 56 | 56 | 3 | 3 | 5,899 | 4,240 | 8,949 | 64 | 75 | 133,934 | 1 | 7.9 |
| Chippewa | 15 | 56 | 56 | 4 | 8 | 7,245 | 5,318 | 9,206 | 66 | 84 | 297,834 | 3 | 8.2 |
| Clare | 17 | 67 | 60 | 3 | ...... | 3,313 | 2,445 | 8,894 | 68 | 61 | 74,090 | 4 | 7.4 |
| Clinton | 17 | 129 | 129 | 7 | ...... | 6,593 | 4,931 | 22,179 | 69 | 130 | 193,155 | ........ | 8.6 |
| Crawford | 5 | 27 | 23 | 1 | ...... | 1,205 | 1,022 | 2,661 | 69 | 26 | 35,846 | ........ | 5.8 |
| Delta | 15 | 31 | 30 | 2 | 8 | 9,036 | 6,384 | 4,854 | 72 | 72 | 208,323 | 8 | 8. |
| Dickinson | 8 | 8 | 8 | 2 | 6 | 6,612 | 4,853 | 1,576 | 87 | 36 | 276,750 | 4 | 9.8 |
| Eaton | 18 | 145 | 145 | 10 | ...... | 7,271 | 5,815 | 24,727 | 74 | 155 | 217,850 | ........ | 8.4 |
| Emmet | 16 | 73 | 73 | 5 | ...... | 5,423 | 3,959 | 11,279 | 67 | 77 | 137,160 | 1 | 7.7 |
| Genesee | 20 | 157 | 157 | 11 | ...... | 10,698 | 8,273 | 27,510 | 69 | 166 | 530,480 | ........ | 8.7 |
| Gladwin | 13 | 49 | 49 | 3 | 2 | 3,087 | 2,370 | 7,819 | 64 | 52 | 67,705 | 1 | 7.9 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gogebic | 7 | 7 | 7 | 3 | 5 | 6,080 | 4,945 | 1,329 | 85 | 33. | 299,800 | 4 | 9.5 |
| Grand Traverse | 14 | 68 | 68 | 3 | ...... | 6,316 | 5,454 | 10,553 | 69 | 74 | 230,650 | ........ | 7.7 |
| Gratiot | 19 | 132 | 131 | 11 | ...... | 8,523 | 6,901 | 21,798 | 71 | 136 | 224,095 | ........ | 8.3 |
| Hillsdale | 19 | 163 | 161 | 14 | ...... | 7,396 | 5,935 | 27,968 | 70 | 168 | 343,775 | 2 | 8.7 |
| Houghton | 15 | 35 | 35 | 8 | 4 | 24,514 | 16,915 | 6,594 | 78 | 103 | 572,434 | 7 | 9.4 |
| Huron | 27 | 119 | 118 | 19 | ...... | 12,339 | 8,784 | 21,583 | 64 | 120 | 214,375 | 3 | 9.1 |
| Ingham | 17 | 137 | 137 | 11 | ...... | 10,709 | 8,169 | 23,835 | 70 | 152 | 393,015 | 2 | 8.7 |
| Ionia | 18 | 141 | 141 | 11 | ...... | 8,809 | 6,586 | 24,506 | 69 | 149 | 254,121 | 1 | 8.6 |
| Iosco | 13 | 30 | 30 | 7 | 1 | 3,559 | 2,533 | 5,144 | 66 | 37 | 50,890 | 1 | 8.5 |
| Iron | 7 | 7 | 7 | 4 | 7 | 3,059 | 2,399 | 1,312 | 73 | 36 | 146,375 | 1 | 9.4 |
| Isabella | 17 | 105 | 105 | 3 | ...... | 7,345 | 4,848 | 17,348 | 63 | 108 | 137,150 | 1 | 8.3 |
| Jackson | 20 | 156 | 153 | 9 | ...... | 11,116 | 7,831 | 26,657 | 74 | 171 | 479,115 | 1 | 8.7 |
| Kalamazoo | 17 | 136 | 136 | 9 | ...... | 12,984 | 9,438 | 23,007 | 74 | 147 | 790,050 | 1 | 8.5 |
| Kalkaska | 11 | 51 | 51 | 2 | ...... | 2,263 | 1,894 | 8,032 | 64 | 50 | 65,600 | 1 | 7.8 |
| Kent | 25 | 206 | 204 | 16 | ...... | 39,833 | 25,142 | 35,682 | 65 | 246 | 1,725,170 | 1 | 8.7 |
| Keweenaw | 5 | 5 | 5 | ...... | 3 | 1,451 | 1,095 | 955 | 60 | 11 | 39,500 | 1 | 9.5 |
| Lake | 11 | 43 | 41 | 3 | ...... | 1,513 | 1,269 | 5,856 | 68 | 43 | 33,125 | ........ | 7.1 |
| Lapeer | 19 | 134 | 134 | 11 | ...... | 7,403 | 5,663 | 23,641 | 68 | 137 | 184,300 | 2 | 8.8 |
| Leelanau | 11 | 58 | 58 | 6 | ...... | 3,710 | 2,675 | 8,243 | 63 | 57 | 60,825 | 1 | 7.1 |
| Lenawee | 24 | 196 | 194 | 13 | ...... | 12,225 | 9,150 | 34,107 | 74 | 207 | 507,683 | 1 | 8.7 |
| Livingston | 16 | 136 | 134 | 4 | ...... | 4,801 | 3,741 | 22,776 | 67 | 138 | 157,425 | 2 | 8.5 |
| Luce | 4 | 4 | 4 | 1 | 4 | 939 | 832 | 730 | 67 | 15 | 24,500 | 2 | 9.1 |
| Mackinac | 13 | 13 | 13 | 2 | 11 | 2,648 | 1,841 | 2,019 | 74 | 45 | 50,300 | 9 | 7.7 |
| Macomb | 15 | 113 | 113 | 13 | ...... | 9,978 | 6,588 | 20,117 | 66 | 120 | 282,565 | ........ | 8.8 |
| Manistee | 13 | 64 | 64 | 7 | ...... | 9,142 | 5,545 | 10,379 | 67 | 70 | 210,075 | 2 | 8.1 |
| Marquette | 21 | 21 | 21 | 6 | 18 | 13,582 | 9,401 | 3,875 | 72 | 77 | 674,350 | 2 | 9.2 |
| Mason | 15 | 64 | 64 | 3 | ...... | 6,700 | 4,651 | 10,255 | 69 | 73 | 235,000 | 4 | 8. |
| Mecosta | 17 | 108 | 108 | 7 | ...... | 6,549 | 5,049 | 17,395 | 67 | 110 | 130,300 | 2 | 8. |
| Menominee | 11 | 40 | 40 | 2 | 6 | 9,789 | 6,498 | 6,511 | 73 | 90 | 264,620 | 6 | 8.1 |
| Midland | 17 | 80 | 79 | 4 | ...... | 4,787 | 3,742 | 12,860 | 63 | 83 | 105,325 | 1 | 8.1 |
| Missaukee | 14 | 62 | 60 | 5 | ...... | 3,687 | 2,936 | 9,456 | 62 | 62 | 80,295 | 6 | 7.9 |
| Monroe | 16 | 138 | 138 | 5 | ...... | 9,898 | 6,790 | 23,681 | 67 | 142 | 204,640 | ........ | 8.6 |
| Montcalm | 22 | 142 | 142 | 12 | ...... | 10,038 | 7,721 | 24,232 | 70 | 146 | 201,770 | ........ | 8.5 |
| Montmorency | 7 | 8 | 8 | 1 | 6 | 1,166 | 880 | 1,287 | 64 | 29 | 20,775 | 2 | 8. |
| Muskegon | 19 | 91 | 90 | 9 | ...... | 12,076 | 9,914 | 14,574 | 69 | 110 | 1,812,951 | ........ | 8. |
| Newaygo | 22 | 118 | 117 | 5 | ...... | 6,147 | 4,910 | 18,010 | 66 | 118 | 133,845 | 3 | 7.6 |
| Oakland | 26 | 201 | 199 | 15 | ...... | 10,942 | 8,424 | 34,540 | 70 | 209 | 594,190 | ........ | 8.7 |
| Oceana | 16 | 91 | 90 | 3 | ...... | 5,474 | 4,367 | 14,413 | 70 | 90 | 121,973 | 2 | 8. |
| Ogemaw | 13 | 48 | 47 | 3 | 1 | 3,144 | 2,324 | 7,902 | 65 | 49 | 55,100 | 2 | 8.4 |
| Ontonagon | 10 | 10 | 10 | 4 | 10 | 2,594 | 2,085 | 1,806 | 77 | 44 | 105,918 | 3 | 9 |
| Osceola | 16 | 93 | 93 | 6 | ...... | 6,092 | 4,683 | 15,449 | 66 | 95 | 125,735 | 2 | 8.3 |
| Oscoda | 3 | 18 | 14 | ...... | 1 | 714 | 537 | 1,942 | 67 | 23 | 9,761 | 6 | 6.9 |
| Otsego | 9 | 36 | 35 | 4 | 1 | 2,270 | 1,764 | 5,380 | 65 | 41 | 56,700 | 1 | 7.6 |
| Ottawa | 17 | 124 | 123 | 23 | ...... | 13,972 | 10,021 | 21,601 | 75 | 131 | 319,050 | 4 | 8.7 |

## TABLE III.—CONCLUDED.

| Counties. | Number of townships and cities reporting. | Whole number of school districts. | Number of districts that maintained school. | Number of graded school districts. | Number of township unit districts. | Number of children 5 years of age and under 20. | Number of children 5 years of age and under 20 that attended school during the year. | Whole number of days of school. | Percentage of attendance. | Number of schoolhouses. | Estimated value of school property. | Number of schoolhouses to be built during ensuing year. | Average number months of school. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Presque Isle | 14 | 37 | 35 | 3 | 3 | 3,478 | 2,158 | 4,935 | 66 | 42 | 51,725 | 4 | 7.1 |
| Roscommon | 7 | 23 | 20 | 1 | ...... | 584 | 399 | 2,125 | 61 | 20 | 9,250 | 4 | 5.3 |
| Saginaw | 30 | 164 | 164 | 9 | ...... | 26,890 | 16,274 | 28,549 | 71 | 188 | 971,172 | 2 | 8.7 |
| St. Clair | 26 | 156 | 155 | 8 | ...... | 16,261 | 10,870 | 27,399 | 67 | 173 | 931,100 | 9 | 8.8 |
| St. Joseph | 18 | 123 | 123 | 8 | ...... | 5,986 | 4,833 | 20,936 | 71 | 131 | 304,710 | 2 | 8.5 |
| Sanilac | 27 | 155 | 154 | 24 | ...... | 11,556 | 9,103 | 27,793 | 64 | 154 | 195,750 | 7 | 9. |
| Schoolcraft | 10 | 12 | 12 | 1 | 8 | 2,651 | 1,920 | 2,116 | 71 | 29 | 92,720 | 3 | 8.8 |
| Shiawassee | 18 | 126 | 124 | 10 | ...... | 8,555 | 6,560 | 21,685 | 73 | 129 | 372,700 | ........ | 8.7 |
| Tuscola | 23 | 149 | 149 | 11 | ...... | 10,540 | 7,706 | 26,481 | 66 | 152 | 212,584 | 4 | 8.9 |
| Van Buren | 19 | 153 | 153 | 15 | ...... | 9,756 | 7,531 | 25,666 | 73 | 156 | 312,950 | 1 | 8.3 |
| Washtenaw | 22 | 166 | 165 | 8 | ...... | 11,731 | 8,292 | 28,782 | 75 | 177 | 687,660 | 1 | 8.7 |
| Wayne | 22 | 149 | 149 | 22 | ...... | 110,217 | 70,005 | 27,700 | 71 | 242 | 4,821,044 | 5 | 9.3 |
| Wexford | 17 | 82 | 81 | 6 | ...... | 6,123 | 4,676 | 12,529 | 68 | 84 | 189,538 | 3 | 7.7 |

# TABLE IV.

*Employment of teachers as reported by school inspectors for the year ending July 9, 1906.*

| Counties. | Number of teachers required. | | Number of different teachers employed. | | Aggregate number of months taught. | | Total wages of teachers. | | | Average monthly wages. | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Graded schools. | Ungraded schools. | Men. | Women. | Men. | Women. | Men. | Women. | Total. | Men. | Women. |
| Totals | 7,796 | 7,464 | 2,568 | 14,356 | 20,403 | 117,853 | $1,285,624 01 | $5,071,547 71 | $6,357,171 72 | $63 01 | $43 03 |
| Alcona | 4 | 35 | 9 | 32 | 82 | 239 | $3,515 00 | $8,665 50 | $12,180 50 | $42 86 | $36 25 |
| Alger | 33 | 24 | 9 | 48 | 77 | 425 | 5,535 00 | 21,225 00 | 26,760 00 | 71 88 | 49 94 |
| Allegan | 86 | 183 | 58 | 242 | 457 | 1,841 | 22,277 53 | 62,937 87 | 85,215 40 | 48 74 | 34 19 |
| Alpena | 47 | 59 | 7 | 183 | 54 | 906 | 4,214 00 | 32,280 32 | 36,494 32 | 76 19 | 35 63 |
| Antrim | 55 | 69 | 23 | 115 | 167 | 875 | 9,630 50 | 33,722 50 | 43,353 00 | 57 66 | 38 54 |
| Arenac | 22 | 38 | 16 | 53 | 131 | 402 | 6,354 30 | 14,691 75 | 21,046 05 | 48 51 | 36 55 |
| Baraga | 27 | 8 | 7 | 28 | 70 | 268 | 5,850 00 | 12,365 75 | 18,215 75 | 83 57 | 46 14 |
| Barry | 48 | 143 | 43 | 180 | 332 | 1,325 | 15,076 10 | 48,298 00 | 63,374 10 | 45 40 | 36 45 |
| Bay | 202 | 81 | 45 | 244 | 397 | 2,335 | 27,938 25 | 102,055 57 | 129,993 82 | 70 37 | 43 70 |
| Benzie | 36 | 46 | 20 | 83 | 146 | 542 | 7,867 51 | 19,841 65 | 27,709 16 | 53 88 | 36 60 |
| Berrien | 169 | 139 | 65 | 258 | 515 | 2,152 | 32,635 62 | 87,443 49 | 120,079 11 | 63 37 | 40 12 |
| Branch | 66 | 124 | 49 | 171 | 351 | 1,346 | 18,752 35 | 54,226 49 | 72,978 84 | 53 42 | 40 28 |
| Calhoun | 184 | 159 | 45 | 321 | 393 | 2,779 | 26,347 95 | 109,577 89 | 135,925 84 | 67 04 | 39 43 |
| Cass | 55 | 107 | 35 | 144 | 293 | 1,128 | 14,784 50 | 40,193 36 | 54,977 86 | 50 46 | 35 63 |
| Charlevoix | 63 | 66 | 17 | 135 | 124 | 923 | 7,163 25 | 34,956 74 | 42,119 99 | 57 77 | 37 87 |
| Cheboygan | 40 | 73 | 13 | 109 | 105 | 869 | 6,508 50 | 33,849 98 | 40,358 48 | 61 99 | 38 95 |
| Chippewa | 81 | 67 | 42 | 127 | 315 | 1,019 | 19,532 75 | 46,141 95 | 65,674 70 | 62 01 | 45 28 |
| Clare | 21 | 65 | 28 | 80 | 162 | 459 | 7,088 95 | 15,408 88 | 22,497 83 | 43 76 | 33 57 |
| Clinton | 50 | 125 | 33 | 173 | 255 | 1,312 | 12,727 25 | 45,551 40 | 58,278 65 | 49 91 | 35 48 |
| Crawford | 11 | 30 | 7 | 40 | 35 | 233 | 1,895 00 | 8,998 40 | 10,893 40 | 54 14 | 38 61 |
| Delta | 71 | 80 | 16 | 156 | 126 | 1,235 | 11,236 80 | 56,187 37 | 67,424 17 | 89 18 | 45 41 |
| Dickinson | 102 | 40 | 16 | 120 | 156 | 1,090 | 15,189 40 | 58,721 30 | 73,910 70 | 97 36 | 53 87 |
| Eaton | 91 | 138 | 37 | 239 | 268 | 1,767 | 15,471 28 | 66,372 11 | 81,843 39 | 57 72 | 37 56 |
| Emmet | 57 | 70 | 24 | 146 | 159 | 903 | 9,116 00 | 35,197 33 | 44,313 33 | 57 33 | 38 98 |
| Genesee | 132 | 151 | 63 | 237 | 547 | 2,089 | 26,880 60 | 77,855 46 | 104,736 06 | 49 14 | 37 27 |
| Gladwin | 16 | 47 | 10 | 60 | 83 | 441 | 3,755 50 | 14,967 50 | 18,723 00 | 45 25 | 33 94 |
| Gogebic | 113 | 18 | 8 | 123 | 75 | 1,226 | 8,500 00 | 61,725 63 | 70,225 63 | 113 33 | 54 42 |
| Grand Traverse | 65 | 71 | 20 | 139 | 141 | 999 | 7,586 59 | 44,394 11 | 51,980 70 | 53 81 | 44 43 |
| Gratiot | 79 | 124 | 50 | 196 | 343 | 1,345 | 16,354 00 | 50,784 28 | 67,138 28 | 47 67 | 37 75 |

## TABLE IV.—CONCLUDED.

| Counties. | Number of teachers required. | | Number of different teachers employed. | | Aggregate number of months taught. | | Total wages of teachers. | | | Average monthly wages. | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Graded schools. | Ungraded schools. | Men. | Women. | Men. | Women. | Men. | Women. | Total. | Men. | Women. |
| Hillsdale | 81 | 155 | 59 | 219 | 441 | 1,639 | $20,888 24 | $52,370 73 | $73,258 97 | $47 37 | $31 95 |
| Houghton | 371 | 85 | 48 | 422 | 434 | 4,042 | 44,732 50 | 214,984 73 | 259,667 23 | 103 07 | 53 17 |
| Huron | 68 | 107 | 56 | 131 | 514 | 1,097 | 25,418 25 | 39,663 13 | 65,081 38 | 49 45 | 35 16 |
| Ingham | 139 | 127 | 59 | 285 | 359 | 2,103 | 20,506 45 | 85,952 69 | 106,459 14 | 57 12 | 40 87 |
| Ionia | 104 | 131 | 32 | 232 | 238 | 1,904 | 12,845 43 | 66,546 05 | 79,391 48 | 53 97 | 34 95 |
| Iosco | 40 | 24 | 8 | 61 | 62 | 523 | 3,612 50 | 19,006 60 | 22,619 10 | 58 27 | 36 34 |
| Iron | 61 | 14 | 9 | 73 | 66 | 630 | 6,050 45 | 31,255 38 | 37,305 83 | 91 66 | 49 61 |
| Isabella | 27 | 103 | 39 | 132 | 251 | 863 | 12,092 25 | 31,026 50 | 43,118 75 | 48 19 | 35 95 |
| Jackson | 140 | 148 | 47 | 284 | 356 | 2,280 | 21,494 60 | 84,489 45 | 105,984 05 | 60 38 | 37 06 |
| Kalamazoo | 184 | 130 | 62 | 287 | 474 | 2,440 | 28,305 72 | 102,453 66 | 130,759 38 | 59 71 | 41 98 |
| Kalkaska | 14 | 50 | 8 | 77 | 54 | 469 | 2,894 00 | 17,870 00 | 20,764 00 | 53 59 | 38 10 |
| Kent | 494 | 202 | 74 | 668 | 608 | 6,041 | 47,274 10 | 331,874 12 | 379,148 22 | 77 75 | 54 93 |
| Keweenaw | ........ | 23 | 9 | 14 | 85 | 139 | 5,640 00 | 6,587 50 | 12,227 50 | 66 35 | 47 39 |
| Lake | 11 | 40 | 9 | 58 | 63 | 300 | 2,796 90 | 9,186 63 | 11,983 53 | 44 39 | 30 62 |
| Lapeer | 59 | 125 | 30 | 166 | 257 | 1,423 | 13,589 00 | 47,226 90 | 60,815 90 | 52 87 | 33 18 |
| Leelanau | 18 | 54 | 18 | 73 | 114 | 422 | 6,071 50 | 15,508 15 | 21,579 65 | 53 24 | 36 74 |
| Lenawee | 126 | 190 | 61 | 294 | 462 | 2,389 | 25,139 35 | 85,834 44 | 110,973 79 | 54 41 | 35 96 |
| Livingston | 38 | 133 | 43 | 181 | 270 | 1,227 | 11,343 23 | 36,147 88 | 47,491 11 | 53 25 | 36 74 |
| Luce | 16 | 10 | 5 | 22 | 48 | 199 | 2,970 00 | 9,660 00 | 12,630 00 | 61 87 | 48 54 |
| Mackinac | 15 | 52 | 23 | 63 | 121 | 403 | 5,912 50 | 17,162 50 | 23,075 00 | 48 86 | 42 31 |
| Macomb | 87 | 102 | 35 | 160 | 294 | 1,446 | 17,741 25 | 50,977 93 | 68,719 18 | 60 34 | 35 25 |
| Manistee | 95 | 66 | 22 | 148 | 171 | 1,302 | 10,814 25 | 54,621 42 | 65,435 67 | 63 24 | 41 95 |
| Marquette | 201 | 53 | 22 | 237 | 215 | 2,234 | 22,415 00 | 120,288 16 | 142,703 16 | 104 25 | 53 84 |
| Mason | 56 | 69 | 16 | 118 | 118 | 978 | 7,341 00 | 39,799 43 | 47,140 43 | 62 21 | 40 69 |
| Mecosta | 44 | 101 | 26 | 153 | 168 | 1,059 | 8,049 50 | 36,783 92 | 44,833 42 | 47 92 | 34 73 |
| Menominee | 75 | 92 | 18 | 152 | 161 | 1,335 | 12,128 65 | 59,182 14 | 71,310 79 | 75 33 | 44 33 |
| Midland | 29 | 78 | 16 | 102 | 129 | 774 | 6,069 50 | 25,308 95 | 31,378 45 | 47 04 | 32 69 |
| Missaukee | 21 | 60 | 18 | 87 | 119 | 530 | 5,545 00 | 19,528 93 | 25,073 93 | 46 59 | 36 84 |
| Monroe | 41 | 142 | 44 | 163 | 336 | 1,277 | 15,915 10 | 42,809 65 | 58,724 75 | 47 36 | 33 52 |
| Montcalm | 78 | 184 | 37 | 214 | 291 | 1,598 | 14,965 25 | 55,255 64 | 70,220 89 | 51 42 | 34 58 |
| Montmorency | 8 | 27 | 11 | 35 | 63 | 229 | 2,545 12 | 7,373 75 | 9,918 87 | 40 39 | 32 19 |
| Muskegon | 163 | 83 | 30 | 237 | 261 | 1,996 | 25,403 75 | 87,693 10 | 113,096 85 | 97 33 | 43 93 |
| Newaygo | 32 | 115 | 34 | 163 | 207 | 969 | 9,871 00 | 32,682 52 | 42,553 52 | 47 68 | 33 72 |
| Oakland | 125 | 192 | 36 | 295 | 332 | 2,554 | 21,481 40 | 86,195 41 | 107,676 81 | 64 70 | 33 75 |
| Oceana | 32 | 92 | 31 | 107 | 240 | 791 | 11,312 68 | 28,384 12 | 39,696 80 | 47 13 | 35 88 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ogemaw | 16 | 46 | 8 | 61 | 69 | 461 | 3,085 00 | 15,913 40 | 18,998 40 | 44 71 | 34 51 |
| Ontonagon | 48 | 29 | 9 | 71 | 77 | 652 | 6,915 00 | 31,496 25 | 38,411 25 | 89 80 | 48 30 |
| Osceola | 44 | 89 | 24 | 133 | 202 | 952 | 10,926 90 | 34,993 60 | 45,920 50 | 54 09 | 36 75 |
| Oscoda | ........ | 26 | 4 | 24 | 15 | 145 | 497 50 | 4,604 00 | 5,101 50 | 33 17 | 31 75 |
| Otsego | 24 | 37 | 10 | 65 | 76 | 385 | 3,990 00 | 15,317 50 | 19,307 50 | 52 50 | 39 78 |
| | | | | | | | | | | | |
| Ottawa | 130 | 107 | 41 | 204 | 360 | 1,820 | 20,667 89 | 67,555 44 | 88,223 33 | 57 41 | 37 11 |
| Presque Isle | 21 | 39 | 17 | 49 | 110 | 352 | 5,139 00 | 13,507 00 | 18,646 00 | 46 71 | 38 37 |
| Roscommon | 3 | 22 | 4 | 29 | 16 | 108 | 885 75 | 3,653 50 | 4,539 25 | 55 36 | 33 82 |
| Saginaw | 274 | 169 | 59 | 413 | 524 | 3,690 | 40,306 63 | 160,411 24 | 200,717 87 | 76 92 | 43 47 |
| St. Clair | 139 | 151 | 35 | 282 | 309 | 2,381 | 19,852 50 | 94,521 99 | 114,374 49 | 64 24 | 39 69 |
| | | | | | | | | | | | |
| St. Joseph | 86 | 117 | 46 | 177 | 345 | 1,449 | 17,440 80 | 50,271 88 | 67,712 68 | 50 55 | 34 69 |
| Sanilac | 62 | 131 | 67 | 130 | 610 | 1,165 | 28,811 21 | 41,042 60 | 69,853 81 | 47 23 | 35 22 |
| Schoolcraft | 31 | 31 | 12 | 54 | 103 | 477 | 6,883 22 | 21,520 77 | 28,403 99 | 66 82 | 45 11 |
| Shiawassee | 105 | 117 | 36 | 217 | 299 | 1,747 | 17,818 00 | 65,104 09 | 82,922 09 | 59 59 | 37 27 |
| Tuscola | 65 | 145 | 45 | 181 | 391 | 1,523 | 19,485 75 | 50,674 10 | 70,159 85 | 49 83 | 33 27 |
| | | | | | | | | | | | |
| Van Buren | 100 | 139 | 43 | 207 | 354 | 1,739 | 20,675 00 | 63,364 17 | 84,039 17 | 58 40 | 36 44 |
| Washtenaw | 158 | 162 | 44 | 297 | 375 | 2,553 | 30,476 29 | 95,432 09 | 125,908 38 | 81 27 | 37 38 |
| Wayne | 1,322 | 140 | 138 | 1,345 | 1,317 | 13,126 | 144,166 99 | 849,103 23 | 993,270 22 | 109 46 | 64 68 |
| Wexford | 58 | 78 | 16 | 172 | 110 | 1,050 | 6,640 68 | 42,781 17 | 49,421 85 | 60 36 | 40 74 |

# TABLE V.

*Resources of school districts as reported by school inspectors for the year ending July 9, 1906.*

| Counties. | Ordinary receipts. | | | | | | | Received from loans. | Money on hand July 10, 1905. | Total resources including amount on hand and loans. |
|---|---|---|---|---|---|---|---|---|---|---|
| | One-mill tax. | Primary school interest fund. | Library moneys. | Tuition of non-resident pupils. | District tax for all purposes. | Raised from all other sources. | Total net receipts. | | | |
| Totals | $1,092,688 64 | $2,706,165 10 | $64,195 91 | $110,495 58 | $5,591,319 75 | $675,410 16 | $10,240,275 14 | $1,060,380 37 | $2,932,874 20 | $14,233,529 71 |
| Alcona | $173 76 | $7,438 70 | $45 48 | ............ | $9,782 05 | $2,192 31 | $19,632 30 | $70 00 | $7,940 52 | $27,642 82 |
| Alger | 1,018 02 | 6,978 94 | 364 90 | ............ | 33,505 69 | 38 23 | 41,905 78 | 16,536 19 | 9,258 98 | 67,700 95 |
| Allegan | 20,857 06 | 41,732 80 | 973-23 | $2,624 70 | 55,835 81 | 2,557 79 | 124,581 39 | 4,930 65 | 36,102 77 | 165,614 81 |
| Alpena | 67 35 | 24,274 40 | 709 75 | 15 60 | 30,822 97 | 3,839 17 | 59,729 24 | 11,212 05 | 6,341 97 | 77,283 26 |
| Antrim | 3,669 02 | 17,742 84 | 276 85 | 431.23 | 40,664 87 | 3,086 19 | 65,871 00 | 1,863 47 | 25,240 14 | 92,974 61 |
| Arenac | 1,137 37 | 13,779 17 | 203 64 | 179 05 | 16,378 87 | 5,992 99 | 37,671 09 | 3,660 00 | 16,301 65 | 57,632 74 |
| Baraga | 2,237 95 | 5,803 38 | ............ | ............ | 16,916 77 | 856 78 | 25,814 88 | 3,500 00 | 11,656 50 | 40,971 38 |
| Barry | 13,720 37 | 21,856 83 | 593 41 | 1,627 73 | 43,566 60 | 2,072 02 | 83,436 96 | 7,839 76 | 20,236 11 | 111,512 83 |
| Bay | 6,736 05 | 81,786 55 | 431 35 | 1,454 79 | 184,850 32 | 3,819 27 | 229,078 33 | 45,651 14 | 39,459 00 | 314,188 47 |
| Benzie | 2,976 27 | 11,061 82 | 25 84 | 168 00 | 25,683 43 | 1,216 39 | 41,131 75 | 838 89 | 8,560 93 | 50,551 57 |
| Berrien | 14,596 91 | 53,043 99 | 1,165 69 | 3,548 07 | 103,267 94 | 4,114 67 | 179,737 27 | 10,855 22 | 45,782 37 | 236,374 86 |
| Branch | 20,095 08 | 24,885 94 | 736 29 | 1,679 12 | 49,669 98 | 1,771 61 | 98,838 02 | 5,085 55 | 37,149 80 | 141,073 37 |
| Calhoun | 22,390 55 | 45,828 74 | 1,238 30 | 3,377 53 | 163,451 10 | 4,496 38 | 240,782 60 | 2,534 51 | 50,627 19 | 293,944 30 |
| Cass | 12,779 90 | 18,441 51 | 308 90 | 1,425 29 | 42,708 31 | 2,526 48 | 78,190 39 | 15,107 13 | 16,533 67 | 109,831 19 |
| Charlevoix | 3,926 52 | 18,700 55 | 211 06 | 328 88 | 44,435 88 | 4,051 50 | 71,654 39 | 6,801 95 | 15,739 89 | 94,196 23 |
| Cheboygan | 4,827 99 | 20,950 59 | 447 92 | 389 77 | 43,550 64 | 3,463 66 | 73,630 57 | 6,304 43 | 15,942 63 | 95,877 63 |
| Chippewa | 11,622 00 | 25,631 17 | 1,052 87 | 41 12 | 73,412 55 | 5,121 30 | 116,881 01 | 28,677 03 | 30,262 25 | 175,820 29 |
| Clare | 488 42 | 11,047 59 | 30 | 362 48 | 18,006 24 | 1,243 87 | 31,148 90 | 307 25 | 16,424 43 | 47,880 58 |
| Clinton | 18,790 44 | 24,833 69 | 802 22 | 1,629 77 | 34,369 32 | 2,615 04 | 83,040 48 | 8,233 27 | 24,352 31 | 110,626 06 |
| Crawford | 198 90 | 2,963 49 | 5 69 | ............ | 11,644 58 | 1,567 14 | 16,379 80 | 6,371 96 | 8,774 75 | 31,526 51 |
| Delta | 2,376 08 | 30,820 79 | 256 43 | 553 75 | 70,019 43 | 4,096 99 | 108,123 38 | 35,477 52 | 33,923 18 | 177,524 08 |
| Dickinson | 7,885 41 | 24,189 80 | 4,136 57 | ............ | 97,051 90 | 1,047 52 | 134,311 20 | 44,325 84 | 30,188 07 | 208,825 11 |
| Eaton | 18,565 63 | 26,512 68 | 553 96 | 3,179 82 | 59,992 25 | 1,432 46 | 110,236 80 | 3,658 39 | 30,786 99 | 144,682 18 |
| Emmet | 2,418 53 | 18,747 03 | 881 96 | 251 25 | 49,935 73 | 1,964 62 | 74,199 12 | 18,132 02 | 15,648 05 | 107,979 19 |
| Genesee | 29,899 60 | 39,301 20 | 1,765 43 | 4,916 40 | 87,707 65 | 2,214 13 | 165,804 41 | 8,907 79 | 21,100 26 | 195,812 46 |
| Gladwin | 1,452 98 | 10,574 10 | 307 86 | 387 41 | 18,089 29 | 2,381 48 | 33,193 12 | 4,642 30 | 27,007 50 | 64,842 92 |
| Gogebic | 8,510 71 | 22,563 50 | 504 77 | 240 00 | 108,952 94 | 2,130 75 | 142,962 67 | 27,100 00 | 31,976 96 | 202,039 63 |
| Grand Traverse | 8,043 01 | 23,960 79 | 116 65 | 1,113 69 | 50,481 16 | 2,296 94 | 86,012 24 | 261 05 | 12,872 48 | 99,145 77 |
| Gratiot | 13,275 71 | 31,248 79 | 693 65 | 1,385 24 | 48,523 02 | 3,397 98 | 98,524 34 | 29,282 82 | 20,291 06 | 148,098 22 |
| Hillsdale | 20,553 16 | 26,717 57 | 860 50 | 3,612 78 | 48,615 17 | 2,494 62 | 102,853 80 | 40,407 86 | 22,939 33 | 166,200 99 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Houghton | 97,832 20 | 86,801 46 | 2,965 02 | 3,138 58 | 265,629 25 | 9,970 09 | 466,356 60 | 12,413 00 | 210,180 09 | 688,949 69 |
| Huron | 13,083 11 | 47,733 12 | 449 76 | 863 38 | 42,558 94 | 3,519 40 | 106,207 71 | 14,334 16 | 47,667 32 | 170,209 19 |
| Ingham | 26,593 09 | 33,149 60 | 921 59 | 2,708 75 | 95,218 66 | 3,221 88 | 161,813 57 | 8,257 06 | 47,993 03 | 218,063 66 |
| Ionia | 17,934 62 | 32,519 57 | 271 94 | 3,212 46 | 51,725 04 | 5,223 90 | 110,887 53 | 7,964 03 | 37,454 79 | 156,306 35 |
| Iosco | 687 44 | 13,702 86 | 113 37 | 55 05 | 16,036 58 | 4,355 44 | 34,950 74 | 2,484 59 | 20,787 05 | 58,222 38 |
| Iron | 2,112 01 | 8,144 30 | 372 72 | 8 63 | 55,780 60 | 4,713 08 | 71,129 34 | 3,500 00 | 16,780 96 | 91,410 30 |
| Isabella | 7,885 83 | 27,139 51 | 212 05 | 474 50 | 25,577 70 | 2,949 47 | 64,239 06 | 2,875 00 | 22,658 10 | 89,772 16 |
| Jackson | 32,762 82 | 41,325 47 | 353 67 | 2,396 81 | 87,936 45 | 2,765 30 | 167,540 52 | 20,698 02 | 29,710 34 | 217,948 88 |
| Kalamazoo | 30,837 48 | 43,581 67 | 1,450 93 | 3,353 22 | 132,436 11 | 3,604 37 | 215,263 78 | 52,949 24 | 26,992 94 | 295,205 96 |
| Kalkaska | 2,310 50 | 8,017 30 | 80 98 | 182 75 | 22,127 34 | 2,124 46 | 34,843 33 | 2,195 47 | 11,891 72 | 48,930 52 |
| Kent | 88,554 26 | 144,574 56 | 1,819 31 | 4,568 16 | 332,810 22 | 31,450 82 | 603,777 33 | 77,557 29 | 213,968 72 | 895,303 34 |
| Keweenaw | 5,653 26 | 4,308 00 | | | 11,524 78 | 763 96 | 22,250 00 | | 11,273 02 | 33,523 02 |
| Lake | 375 58 | 5,618 10 | 100 33 | 14 01 | 10,960 23 | 4,094 28 | 21,162 53 | 755 09 | 7,234 45 | 29,152 07 |
| Lapeer | 15,798 61 | 27,990 07 | 319 33 | 2,341 86 | 38,429 36 | 1,682 33 | 86,561 56 | 1,934 55 | 25,953 12 | 114,449 23 |
| Leelanau | 2,221 98 | 13,523 39 | 99 31 | 118 17 | 13,580 87 | 603 76 | 30,147 48 | 1,086 43 | 9,026 63 | 40,260 54 |
| Lenawee | 37,053 58 | 45,404 99 | 2,265 07 | 4,227 07 | 81,977 73 | 2,809 63 | 173,738 07 | 47,755 22 | 54,256 96 | 275,750 25 |
| Livingston | 16,521 24 | 17,323 52 | 540 81 | 2,187 57 | 25,486 38 | 1,226 57 | 63,286 09 | 1,575 10 | 14,732 95 | 79,594 14 |
| Luce | 13,161 23 | 3,579 60 | 250 61 | | 7,041 88 | 168 94 | 24,202 26 | 3,652 00 | 4,352 89 | 32,207 15 |
| Mackinac | 2,712 44 | 10,173 53 | 208 52 | 27 90 | 24,416 15 | 4,660 54 | 42,199 08 | 2,200 00 | 8,860 92 | 53,260 00 |
| Macomb | 22,927 34 | 38,206 33 | 1,535 75 | 2,122 01 | 38,106 13 | 5,956 98 | 108,854 54 | 4,154 63 | 40,657 19 | 153,666 36 |
| Manistee | 9,295 52 | 34,111 00 | 502 31 | 898 02 | 51,044 37 | 4,133 40 | 99,984 62 | 910 00 | 24,968 49 | 125,863 11 |
| Marquette | 23,617 93 | 48,453 20 | 1,736 07 | 47 09 | 157,696 76 | 3,161 98 | 234,713 03 | 1,000 00 | 78,568 60 | 314,281 63 |
| Mason | 5,375 90 | 24,522 66 | 189 86 | 742 58 | 40,627 54 | 6,349 69 | 77,808 23 | 11,623 95 | 22,449 12 | 111,881 30 |
| Mecosta | 2,382 24 | 23,946 17 | 233 16 | 258 40 | 34,584 15 | 5,409 92 | 66,814 04 | 2,205 65 | 30,992 75 | 100,012 44 |
| Menominee | 6,724 68 | 35,493 42 | 225 70 | 139 24 | 74,228 58 | 1,692 85 | 118,504 47 | 1,074 52 | 26,129 08 | 145,708 07 |
| Midland | 2,436 28 | 17,937 61 | 50 31 | 237 28 | 17,231 94 | 4,721 56 | 42,614 98 | 1,438 28 | 19,779 47 | 63,832 73 |
| Missaukee | 1,066 55 | 11,973 15 | 89 90 | 69 75 | 23,849 77 | 2,428 40 | 39,477 52 | 4,324 37 | 16,328 95 | 60,130 84 |
| Monroe | 18,630 26 | 37,413 26 | 1,023 15 | 1,403 80 | 25,893 63 | 1,940 05 | 86,304 15 | 15,088 03 | 24,748 79 | 126,140 97 |
| Montcalm | 10,269 04 | 37,098 13 | 908 47 | 2,456 18 | 44,922 83 | 4,658 03 | 100,312 68 | 18,906 82 | 29,300 66 | 148,522 16 |
| Montmorency | 529 16 | 4,045 72 | 119 58 | 69 00 | 9,168 24 | 1,213 70 | 15,136 40 | 200 00 | 8,122 10 | 23,458 50 |
| Muskegon | 14,892 16 | 49,816 40 | 2,170 79 | 1,336 70 | 104,506 34 | 39,066 60 | 211,788 99 | 9,990 00 | 39,589 67 | 261,368 66 |
| Newaygo | 5,023 58 | 21,718 44 | 148 23 | 842 50 | 31,842 42 | 8,221 59 | 67,796 76 | 2,092 28 | 21,905 34 | 91,794 38 |
| Oakland | 33,660 03 | 40,178 79 | 914 70 | 4,233 42 | 83,624 22 | 7,511 98 | 170,123 14 | 6,821 85 | 69,316 53 | 246,261 52 |
| Oceana | 5,066 06 | 19,882 60 | 70 91 | 837 57 | 28,531 85 | 3,194 31 | 57,583 30 | 7,383 00 | 17,909 15 | 82,875 45 |
| Ogemaw | 773 67 | 11,194 09 | 62 96 | 126 66 | 16,279 48 | 1,833 42 | 30,270 28 | 334 57 | 21,017 89 | 51,622 74 |
| Ontonagon | 2,212 51 | 6,757 50 | 554 00 | 200 00 | 56,481 49 | 2,612 27 | 68,817 77 | 14,600 00 | 15,650 59 | 99,068 36 |
| Osceola | 4,053 53 | 22,165 22 | 420 99 | 765 84 | 37,740 69 | 3,063 36 | 68,209 63 | 3,905 02 | 18,228 59 | 90,343 24 |
| Oscoda | 37 47 | 1,967 20 | 132 16 | 6 50 | 4,668 70 | 770 28 | 7,582 31 | 28 00 | 2,901 48 | 10,511 79 |
| Otsego | 1,422 63 | 7,546 51 | 450 89 | 188 16 | 19,513 93 | 2,458 42 | 31,580 54 | 325 07 | 9,212 78 | 41,118 39 |
| Ottawa | 16,499 27 | 50,237 68 | 735 37 | 1,175 67 | 61,148 56 | 2,661 81 | 132,458 36 | 5,045 97 | 43,799 59 | 181,308 92 |
| Presque Isle | 2,497 98 | 12,071 40 | 87 00 | 57 00 | 16,859 74 | 1,400 84 | 32,973 96 | 768 38 | 14,731 00 | 48,473 34 |

## TABLE V.

*Resources of school districts as reported by school inspectors for the year ending July 9, 1906.*

| Counties. | Ordinary receipts. | | | | | | | Received from loans. | Money on hand July 10, 1905. | Total resources including amount on hand and loans. |
|---|---|---|---|---|---|---|---|---|---|---|
| | One-mill tax. | Primary school interest fund. | Library moneys. | Tuition of non-resident pupils. | District tax for all purposes. | Raised from all other sources. | Total net receipts. | | | |
| Totals | $1,092,688 64 | $2,706,165 10 | $64,195 91 | $110,495 58 | $5,591,319 75 | $675,410 16 | $10,240,275 14 | $1,060,380 37 | $2,932,874 20 | $14,233,529 71 |
| Alcona | $173 76 | $7,438 70 | $45 48 | ............ | $9,782 05 | $2,192 31 | $19,632 30 | $70 00 | $7,940 52 | $27,642 82 |
| Alger | 1,018 02 | 6,978 94 | 364 90 | ............ | 33,505 69 | 38 23 | 41,905 78 | 16,536 19 | 9,258 98 | 67,700 95 |
| Allegan | 20,857 06 | 41,732 80 | 973-23 | $2,624 70 | 55,835 81 | 2,557 79 | 124,581 39 | 4,930 65 | 36,102 77 | 165,614 81 |
| Alpena | 67 35 | 24,274 40 | 709 75 | 15 60 | 30,822 97 | 3,839 17 | 59,729 24 | 11,212 05 | 6,341 97 | 77,283 26 |
| Antrim | 3,669 02 | 17,742 84 | 276 85 | 431-23 | 40,664 87 | 3,086 19 | 65,871 00 | 1,863 47 | 25,240 14 | 92,974 61 |
| Arenac | 1,137 37 | 13,779 17 | 203 64 | 179 05 | 16,378 87 | 5,992 99 | 37,671 09 | 3,660 00 | 16,301 65 | 57,632 74 |
| Baraga | 2,237 95 | 5,803 38 | ............ | ............ | 16,916 77 | 856 78 | 25,814 88 | 3,500 00 | 11,656 50 | 40,971 38 |
| Barry | 13,720 37 | 21,856 83 | 593 41 | 1,627 73 | 43,566 60 | 2,072 02 | 83,436 96 | 7,839 76 | 20,236 11 | 111,512 83 |
| Bay | 6,736 05 | 81,786 55 | 431 35 | 1,454 79 | 184,850 32 | 3,819 27 | 229,078 33 | 45,651 14 | 39,459 00 | 314,188 47 |
| Benzie | 2,976 27 | 11,061 82 | 25 84 | 168 00 | 25,683 43 | 1,216 39 | 41,131 75 | 838 89 | 8,580 93 | 50,551 57 |
| Berrien | 14,596 91 | 53,043 99 | 1,165 69 | 3,548 07 | 103,267 94 | 4,114 67 | 179,737 27 | 10,855 22 | 45,782 37 | 236,374 86 |
| Branch | 20,095 08 | 24,885 94 | 736 29 | 1,679 12 | 49,669 98 | 1,771 61 | 98,838 02 | 5,085 55 | 37,149 80 | 141,073 37 |
| Calhoun | 22,390 55 | 45,828 74 | 1,238 30 | 3,377 53 | 163,451 10 | 4,496 38 | 240,782 60 | 2,534 51 | 50,627 19 | 293,944 30 |
| Cass | 12,779 90 | 18,441 51 | 308 90 | 1,425 29 | 42,708 31 | 2,526 48 | 78,190 39 | 15,107 13 | 16,533 67 | 109,831 19 |
| Charlevoix | 3,926 52 | 18,700 55 | 211 06 | 328 88 | 44,435 88 | 4,051 50 | 71,654 39 | 6,801 95 | 15,739 89 | 94,196 23 |
| Cheboygan | 4,827 99 | 20,950 59 | 447 92 | 389 77 | 43,550 64 | 3,463 66 | 73,630 57 | 6,304 43 | 15,942 63 | 95,877 63 |
| Chippewa | 11,622 00 | 25,631 17 | 1,052 87 | 41 12 | 73,412 55 | 5,121 30 | 116,881 01 | 28,677 03 | 30,262 25 | 175,820 29 |
| Clare | 488 42 | 11,047 59 | 30 | 362 48 | 18,006 24 | 1,243 87 | 31,148 90 | 307 25 | 16,424 43 | 47,880 58 |
| Clinton | 18,790 44 | 24,833 69 | 802 22 | 1,629 77 | 34,369 32 | 2,615 04 | 83,040 48 | 3,233 27 | 24,352 31 | 110,626 06 |
| Crawford | 198 90 | 2,963 49 | 5 69 | ............ | 11,644 58 | 1,567 14 | 16,379 80 | 6,371 96 | 8,774 75 | 31,526 51 |
| Delta | 2,376 08 | 30,820 79 | 256 43 | 553 75 | 70,019 43 | 4,096 98 | 108,123 38 | 35,477 52 | 33,923 18 | 177,524 08 |
| Dickinson | 7,885 41 | 24,189 80 | 4,136 57 | ............ | 97,051 90 | 1,047 52 | 134,311 20 | 44,325 84 | 30,188 07 | 208,825 11 |
| Eaton | 18,565 63 | 26,512 68 | 553 96 | 3,179 82 | 59,992 25 | 1,432 46 | 110,236 80 | 3,658 39 | 30,786 99 | 144,682 18 |
| Emmet | 2,418 53 | 18,747 03 | 881 96 | 251 25 | 49,935 73 | 1,964 62 | 74,199 12 | 18,132 02 | 15,648 05 | 107,979 19 |
| Genesee | 29,899 60 | 39,301 20 | 1,765 43 | 4,916 40 | 87,707 65 | 2,214 13 | 165,804 41 | 8,907 79 | 21,100 26 | 195,812 46 |
| Gladwin | 1,452 98 | 10,574 10 | 307 86 | 387 41 | 18,089 29 | 2,381 48 | 33,193 12 | 4,642 30 | 27,007 50 | 64,842 92 |
| Gogebic | 8,510 71 | 22,563 50 | 504 77 | 240 00 | 108,952 94 | 2,180 75 | 142,962 67 | 27,100 00 | 31,976 96 | 202,039 63 |
| Grand Traverse | 8,043 01 | 23,960 79 | 116 65 | 1,113 69 | 50,481 16 | 2,296 94 | 86,012 24 | 261 05 | 12,872 48 | 99,145 77 |
| Gratiot | 13,275 71 | 31,248 79 | 693 65 | 1,385 24 | 48,523 02 | 3,397 93 | 96,524 34 | 29,282 82 | 20,291 06 | 148,098 22 |
| Hillsdale | 20,553 16 | 26,717 57 | 860 50 | 3,612 78 | 48,615 17 | 2,494 62 | 102,853 80 | 40,407 86 | 22,939 33 | 166,200 99 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Houghton | 97,832 20 | 86,801 46 | 2,985 02 | 3,138 58 | 265,629 25 | 9,970 09 | 466,356 60 | 12,413 00 | 210,180 09 | 688,949 69 |
| Huron | 13,083 11 | 47,733 12 | 449 76 | 863 38 | 42,558 94 | 3,519 40 | 108,207 71 | 14,334 16 | 47,667 32 | 170,209 19 |
| Ingham | 26,593 09 | 33,149 60 | 921 59 | 2,708 75 | 95,218 66 | 3,221 88 | 161,813 57 | 8,257 06 | 47,993 03 | 218,063 66 |
| Ionia | 17,934 62 | 32,519 57 | 271 94 | 3,212 46 | 51,725 04 | 5,223 90 | 110,887 53 | 7,964 03 | 37,454 79 | 156,306 35 |
| Iosco | 687 44 | 13,702 86 | 113 37 | 55 05 | 16,036 58 | 4,355 44 | 34,950 74 | 2,484 59 | 20,787 05 | 58,222 38 |
| Iron | 2,112 01 | 8,144 30 | 372 72 | 8 63 | 55,780 60 | 4,713 08 | 71,129 34 | 3,500 00 | 16,780 96 | 91,410 30 |
| Isabella | 7,885 83 | 27,139 51 | 212 05 | 474 50 | 25,577 70 | 2,949 47 | 64,239 06 | 2,875 00 | 22,658 10 | 89,772 16 |
| Jackson | 32,762 82 | 41,325 47 | 353 67 | 2,396 81 | 87,936 45 | 2,765 30 | 167,540 52 | 20,698 02 | 29,710 34 | 217,948 88 |
| Kalamazoo | 30,837 48 | 43,581 67 | 1,450 93 | 3,353 22 | 132,436 11 | 3,604 37 | 215,263 78 | 52,949 24 | 26,992 94 | 295,205 96 |
| Kalkaska | 2,310 50 | 8,017 30 | 80 98 | 182 75 | 22,127 34 | 2,124 46 | 34,843 33 | 2,195 47 | 11,891 72 | 48,930 52 |
| Kent | 88,534 26 | 144,574 56 | 1,819 31 | 4,568 16 | 332,810 22 | 31,450 82 | 603,777 33 | 77,557 29 | 213,968 72 | 895,303 34 |
| Keweenaw | 5,653 26 | 4,308 00 | ...... | ...... | 11,524 78 | 763 96 | 22,250 00 | ...... | 11,273 02 | 33,523 02 |
| Lake | 375 58 | 5,618 10 | 100 33 | 14 01 | 10,960 23 | 4,094 28 | 21,162 53 | 755 09 | 7,234 45 | 29,152 07 |
| Lapeer | 15,798 61 | 27,990 07 | 319 33 | 2,341 86 | 38,429 36 | 1,682 33 | 86,561 56 | 1,934 55 | 25,953 12 | 114,449 23 |
| Leelanau | 2,221 98 | 13,523 39 | 99 31 | 118 17 | 13,580 87 | 603 76 | 30,147 48 | 1,086 43 | 9,026 63 | 40,260 54 |
| Lenawee | 37,053 58 | 45,404 99 | 2,265 07 | 4,227 07 | 81,977 73 | 2,809 63 | 173,738 07 | 47,755 22 | 54,256 96 | 275,750 25 |
| Livingston | 16,521 24 | 17,323 52 | 540 81 | 2,187 57 | 25,486 38 | 1,226 57 | 63,286 09 | 1,575 10 | 14,732 95 | 79,594 14 |
| Luce | 13,161 23 | 3,579 60 | 250 61 | ...... | 7,041 88 | 168 94 | 24,202 26 | 3,652 00 | 4,352 89 | 32,207 15 |
| Mackinac | 2,712 44 | 10,173 53 | 208 52 | 27 90 | 24,416 15 | 4,660 54 | 42,199 06 | 2,200 00 | 8,860 92 | 53,260 00 |
| Macomb | 22,927 34 | 38,206 33 | 1,535 75 | 2,122 01 | 38,106 13 | 5,956 98 | 108,854 54 | 4,154 63 | 40,657 19 | 153,666 36 |
| Manistee | 9,295 52 | 34,111 00 | 502 31 | 898 02 | 51,044 37 | 4,133 40 | 99,984 62 | 910 00 | 24,968 49 | 125,863 11 |
| Marquette | 23,617 93 | 48,453 20 | 1,736 07 | 47 09 | 157,696 76 | 3,161 98 | 234,713 03 | 1,000 00 | 78,568 60 | 314,281 63 |
| Mason | 5,375 90 | 24,522 66 | 189 86 | 742 58 | 40,627 54 | 6,349 69 | 77,808 23 | 11,623 95 | 22,449 12 | 111,881 30 |
| Mecosta | 2,382 24 | 23,946 17 | 233 16 | 258 40 | 34,584 15 | 5,409 92 | 66,814 04 | 2,205 65 | 30,992 75 | 100,012 44 |
| Menominee | 6,724 68 | 35,493 42 | 225 70 | 139 24 | 74,228 58 | 1,692 85 | 118,504 47 | 1,074 52 | 26,129 08 | 145,708 07 |
| Midland | 2,436 28 | 17,937 61 | 50 31 | 237 28 | 17,231 94 | 4,721 56 | 42,614 98 | 1,438 28 | 19,779 47 | 63,832 73 |
| Missaukee | 1,066 55 | 11,973 15 | 89 90 | 69 75 | 23,849 77 | 2,428 40 | 39,477 52 | 4,324 37 | 16,328 95 | 60,130 84 |
| Monroe | 18,630 26 | 37,413 26 | 1,023 15 | 1,403 80 | 25,893 63 | 1,940 05 | 86,304 15 | 15,088 03 | 24,748 79 | 126,140 97 |
| Montcalm | 10,269 04 | 37,098 13 | 908 47 | 2,456 18 | 44,922 83 | 4,658 03 | 100,312 68 | 18,908 82 | 29,300 66 | 148,522 16 |
| Montmorency | 529 16 | 4,045 72 | 119 58 | 69 00 | 9,168 24 | 1,213 70 | 15,136 40 | 200 00 | 8,122 10 | 23,458 50 |
| Muskegon | 14,892 16 | 49,816 40 | 2,170 79 | 1,336 70 | 104,506 34 | 39,066 60 | 211,788 99 | 9,990 00 | 39,589 67 | 261,368 66 |
| Newaygo | 5,023 58 | 21,718 44 | 148 23 | 842 50 | 31,842 42 | 8,221 59 | 67,796 76 | 2,092 28 | 21,905 34 | 91,794 38 |
| Oakland | 33,660 03 | 40,178 79 | 914 70 | 4,233 42 | 83,624 22 | 7,511 98 | 170,123 14 | 6,821 85 | 69,316 53 | 246,261 52 |
| Oceana | 5,066 06 | 19,882 60 | 70 91 | 837 57 | 28,531 85 | 3,194 31 | 57,583 30 | 7,383 00 | 17,909 15 | 82,875 45 |
| Ogemaw | 773 67 | 11,194 09 | 62 96 | 126 66 | 16,279 48 | 1,883 42 | 30,270 28 | 334 57 | 21,017 89 | 51,622 74 |
| Ontonagon | 2,212 51 | 6,757 50 | 554 00 | 200 00 | 56,481 49 | 2,612 27 | 68,817 77 | 14,600 00 | 15,650 59 | 99,068 36 |
| Osceola | 4,053 53 | 22,165 22 | 420 99 | 765 84 | 37,740 69 | 3,063 36 | 68,209 63 | 3,905 02 | 18,228 59 | 90,348 24 |
| Oscoda | 37 47 | 1,967 20 | 132 16 | 6 50 | 4,668 70 | 770 28 | 7,582 31 | 28 00 | 2,901 48 | 10,511 79 |
| Otsego | 1,422 63 | 7,546 51 | 450 89 | 188 16 | 19,513 93 | 2,458 42 | 31,580 54 | 325 07 | 9,212 78 | 41,118 39 |
| Ottawa | 16,499 27 | 50,237 68 | 735 37 | 1,175 67 | 61,148 56 | 2,661 81 | 132,458 36 | 5,045 97 | 43,799 59 | 181,303 92 |
| Presque Isle | 2,497 98 | 12,071 40 | 87 00 | 57 00 | 16,859 74 | 1,400 84 | 32,973 96 | 768 38 | 14,731 00 | 48,473 34 |

## TABLE V.

*Resources of school districts as reported by school inspectors for the year ending July 9, 1906.*

| Counties. | Ordinary receipts. | | | | | | | Received from loans. | Money on hand July 10, 1905. | Total resources including amount on hand and loans. |
|---|---|---|---|---|---|---|---|---|---|---|
| | One-mill tax. | Primary school interest fund. | Library moneys. | Tuition of non-resident pupils. | District tax for all purposes. | Raised from all other sources. | Total net receipts. | | | |
| Totals | $1,092,688 64 | $2,706,165 10 | $64,195 91 | $110,495 58 | $5,591,319 75 | $675,410 16 | $10,240,275 14 | $1,060,380 37 | $2,932,874 20 | $14,233,529 71 |
| Alcona | $173 76 | $7,438 70 | $45 48 | .............. | $9,782 05 | $2,192 31 | $19,632 30 | $70 00 | $7,940 52 | $27,642 82 |
| Alger | 1,018 02 | 6,978 94 | 364 90 | .............. | 33,505 69 | 38 23 | 41,905 78 | 16,536 19 | 9,258 98 | 67,700 95 |
| Allegan | 20,857 06 | 41,732 80 | 973-23 | $2,624 70 | 55,835 81 | 2,557 79 | 124,581 39 | 4,930 65 | 36,102 77 | 165,614 81 |
| Alpena | 67 35 | 24,274 40 | 709 75 | 15 60 | 30,822 97 | 3,839 17 | 59,729 24 | 11,212 05 | 6,341 97 | 77,283 26 |
| Antrim | 3,669 02 | 17,742 84 | 276 85 | 431-23 | 40,664 87 | 3,086 19 | 65,871 00 | 1,863 47 | 25,240 14 | 92,974 61 |
| Arenac | 1,137 37 | 13,779 17 | 203 64 | 179 05 | 16,378 87 | 5,992 99 | 37,671 09 | 3,660 00 | 16,301 65 | 57,632 74 |
| Baraga | 2,237 95 | 5,803 38 | .............. | .............. | 16,916 77 | 856 78 | 25,814 88 | 3,500 00 | 11,656 50 | 40,971 38 |
| Barry | 13,720 37 | 21,856 83 | 593 41 | 1,627 73 | 43,566 60 | 2,072 02 | 83,436 96 | 7,839 76 | 20,236 11 | 111,512 83 |
| Bay | 6,736 05 | 81,786 55 | 431 35 | 1,454 79 | 184,850 32 | 3,819 27 | 229,078 33 | 45,651 14 | 39,459 00 | 314,188 47 |
| Benzie | 2,976 27 | 11,061 82 | 25 84 | 168 00 | 25,683 43 | 1,216 39 | 41,131 75 | 838 89 | 8,580 93 | 50,551 57 |
| Berrien | 14,596 91 | 53,043 99 | 1,165 69 | 3,548 07 | 103,267 94 | 4,114 67 | 179,737 27 | 10,855 22 | 45,782 37 | 236,374 86 |
| Branch | 20,095 08 | 24,885 94 | 736 29 | 1,679 12 | 49,669 98 | 1,771 61 | 98,838 02 | 5,085 55 | 37,149 80 | 141,073 37 |
| Calhoun | 22,390 55 | 45,828 74 | 1,238 30 | 3,377 53 | 163,451 10 | 4,496 38 | 240,782 60 | 2,534 51 | 50,627 19 | 293,944 30 |
| Cass | 12,779 90 | 18,441 51 | 308 90 | 1,425 29 | 42,708 31 | 2,526 48 | 78,190 39 | 15,107 13 | 16,533 67 | 109,831 19 |
| Charlevoix | 3,926 52 | 18,700 55 | 211 06 | 328 88 | 44,435 88 | 4,051 50 | 71,654 39 | 6,801 95 | 15,739 89 | 94,196 23 |
| Cheboygan | 4,827 99 | 20,950 59 | 447 92 | 389 77 | 43,550 64 | 3,463 66 | 73,630 57 | 6,304 43 | 15,942 63 | 95,877 63 |
| Chippewa | 11,622 00 | 25,631 17 | 1,052 87 | 41 12 | 73,412 55 | 5,121 30 | 116,881 01 | 28,677 03 | 30,262 25 | 175,820 29 |
| Clare | 488 42 | 11,047 59 | 30 | 362 48 | 18,006 24 | 1,243 87 | 31,148 90 | 307 25 | 16,424 43 | 47,880 58 |
| Clinton | 18,790 44 | 24,833 69 | 802 22 | 1,629 77 | 34,369 32 | 2,615 04 | 83,040 48 | 3,233 27 | 24,352 31 | 110,626 06 |
| Crawford | 198 90 | 2,963 49 | 5 69 | .............. | 11,644 58 | 1,567 14 | 16,379 80 | 6,371 96 | 8,774 75 | 31,526 51 |
| Delta | 2,376 08 | 30,820 79 | 256 43 | 553 75 | 70,019 43 | 4,096 98 | 108,123 38 | 35,477 52 | 33,923 18 | 177,524 08 |
| Dickinson | 7,885 41 | 24,189 80 | 4,136 57 | .............. | 97,051 90 | 1,047 52 | 134,311 20 | 44,325 84 | 30,188 07 | 208,825 11 |
| Eaton | 18,565 63 | 26,512 68 | 553 96 | 3,179 82 | 59,992 25 | 1,432 46 | 110,236 80 | 3,658 39 | 30,786 99 | 144,682 18 |
| Emmet | 2,418 53 | 18,747 03 | 881 96 | 251 25 | 49,935 73 | 1,964 62 | 74,199 12 | 18,132 02 | 15,648 05 | 107,979 19 |
| Genesee | 29,899 60 | 39,301 20 | 1,765 43 | 4,916 40 | 87,707 65 | 2,214 13 | 165,804 41 | 8,907 79 | 21,100 26 | 195,812 46 |
| Gladwin | 1,452 98 | 10,574 10 | 307 86 | 387 41 | 18,089 29 | 2,381 48 | 33,193 12 | 4,642 80 | 27,007 50 | 64,842 92 |
| Gogebic | 8,510 71 | 22,563 50 | 504 77 | 240 00 | 108,952 94 | 2,130 75 | 142,962 67 | 27,100 00 | 31,976 96 | 202,039 63 |
| Grand Traverse | 8,043 01 | 23,960 79 | 116 65 | 1,113 69 | 50,481 16 | 2,296 94 | 86,012 24 | 261 05 | 12,872 48 | 99,145 77 |
| Gratiot | 13,275 71 | 31,248 79 | 693 65 | 1,385 24 | 48,523 02 | 3,397 93 | 98,524 34 | 29,282 82 | 20,291 06 | 148,098 22 |
| Hillsdale | 20,553 16 | 26,717 57 | 860 50 | 3,612 78 | 48,615 17 | 2,494 62 | 102,853 80 | 40,407 86 | 22,939 33 | 166,200 99 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Houghton | 97,832 20 | 86,801 46 | 2,985 02 | 3,138 58 | 265,629 25 | 9,970 09 | 466,356 60 | 12,413 00 | 210,180 09 | 688,949 69 |
| Huron | 13,083 11 | 47,733 12 | 449 76 | 863 38 | 42,558 94 | 3,519 40 | 108,207 71 | 14,334 16 | 47,667 32 | 170,209 19 |
| Ingham | 26,593 09 | 33,149 60 | 921 59 | 2,708 75 | 95,218 66 | 3,221 88 | 161,813 57 | 8,257 06 | 47,993 03 | 218,063 66 |
| Ionia | 17,934 62 | 32,519 57 | 271 94 | 3,212 46 | 51,725 04 | 5,223 90 | 110,887 53 | 7,964 03 | 37,454 79 | 156,306 35 |
| Iosco | 687 44 | 13,702 86 | 113 37 | 55 05 | 16,036 58 | 4,355 44 | 34,950 74 | 2,484 59 | 20,787 05 | 58,222 38 |
| Iron | 2,112 01 | 8,144 30 | 372 72 | 8 63 | 55,780 60 | 4,713 08 | 71,129 34 | 3,500 00 | 16,780 96 | 91,410 30 |
| Isabella | 7,885 83 | 27,139 51 | 212 05 | 474 50 | 25,577 70 | 2,949 47 | 64,239 06 | 2,875 00 | 22,658 10 | 89,772 16 |
| Jackson | 32,762 82 | 41,325 47 | 353 67 | 2,396 81 | 87,936 45 | 2,765 30 | 167,540 52 | 20,698 02 | 29,710 34 | 217,948 88 |
| Kalamazoo | 30,837 48 | 43,581 67 | 1,450 93 | 3,353 22 | 132,436 11 | 3,604 37 | 215,263 78 | 52,949 24 | 26,992 94 | 295,205 96 |
| Kalkaska | 2,310 50 | 8,017 30 | 80 98 | 182 75 | 22,127 34 | 2,124 46 | 34,843 33 | 2,195 47 | 11,891 72 | 48,930 52 |
| Kent | 88,534 26 | 144,574 56 | 1,819 31 | 4,568 16 | 332,810 22 | 31,450 82 | 603,777 33 | 77,557 29 | 213,968 72 | 895,303 34 |
| Keweenaw | 5,653 26 | 4,308 00 | | | 11,524 78 | 763 96 | 22,250 00 | | 11,273 02 | 33,523 02 |
| Lake | 375 58 | 5,618 10 | 100 33 | 14 01 | 10,960 23 | 4,094 28 | 21,162 53 | 755 09 | 7,234 45 | 29,152 07 |
| Lapeer | 15,798 61 | 27,990 07 | 319 33 | 2,341 86 | 38,429 36 | 1,682 33 | 86,561 56 | 1,934 55 | 25,953 12 | 114,449 23 |
| Leelanau | 2,221 98 | 13,523 39 | 99 31 | 118 17 | 13,580 87 | 603 76 | 30,147 48 | 1,086 43 | 9,026 63 | 40,260 54 |
| Lenawee | 37,053 58 | 45,404 99 | 2,265 07 | 4,227 07 | 81,977 73 | 2,809 63 | 173,738 07 | 47,755 22 | 54,256 96 | 275,760 25 |
| Livingston | 16,521 24 | 17,323 52 | 540 81 | 2,187 57 | 25,486 38 | 1,226 57 | 63,286 09 | 1,575 10 | 14,732 95 | 79,594 14 |
| Luce | 13,161 23 | 3,579 60 | 250 61 | | 7,041 88 | 168 94 | 24,202 26 | 3,652 00 | 4,352 89 | 32,207 15 |
| Mackinac | 2,712 44 | 10,173 53 | 208 52 | 27 90 | 24,416 15 | 4,660 54 | 42,199 08 | 2,200 00 | 8,860 92 | 53,260 00 |
| Macomb | 22,927 34 | 38,206 33 | 1,535 75 | 2,122 01 | 38,106 13 | 5,956 98 | 106,854 54 | 4,154 63 | 40,657 19 | 153,666 36 |
| Manistee | 9,295 52 | 34,111 00 | 502 31 | 898 02 | 51,044 37 | 4,133 40 | 99,984 62 | 910 00 | 24,968 49 | 125,863 11 |
| Marquette | 23,617 93 | 48,453 20 | 1,736 07 | 47 09 | 157,696 76 | 3,161 98 | 234,713 03 | 1,000 00 | 78,568 60 | 314,281 63 |
| Mason | 5,375 90 | 24,522 66 | 189 86 | 742 58 | 40,627 54 | 6,349 69 | 77,808 23 | 11,623 95 | 22,449 12 | 111,881 30 |
| Mecosta | 2,382 24 | 23,946 17 | 233 16 | 258 40 | 34,584 15 | 5,409 92 | 66,814 04 | 2,205 65 | 30,992 75 | 100,012 44 |
| Menominee | 6,724 68 | 35,493 42 | 225 70 | 139 24 | 74,228 58 | 1,692 85 | 118,504 47 | 1,074 52 | 26,129 08 | 145,708 07 |
| Midland | 2,436 28 | 17,937 61 | 50 31 | 237 28 | 17,231 94 | 4,721 56 | 42,614 98 | 1,438 28 | 19,779 47 | 63,832 73 |
| Missaukee | 1,066 55 | 11,973 15 | 89 90 | 69 75 | 23,849 77 | 2,428 40 | 39,477 52 | 4,324 37 | 16,328 95 | 60,130 84 |
| Monroe | 18,630 26 | 37,413 26 | 1,023 15 | 1,403 80 | 25,893 63 | 1,940 05 | 86,304 15 | 15,088 03 | 24,748 79 | 126,140 97 |
| Montcalm | 10,269 04 | 37,098 13 | 908 47 | 2,456 18 | 44,922 83 | 4,658 03 | 100,312 68 | 18,908 82 | 29,300 66 | 148,522 16 |
| Montmorency | 529 16 | 4,045 72 | 119 58 | 69 00 | 9,168 24 | 1,213 70 | 15,136 40 | 200 00 | 8,122 10 | 23,458 50 |
| Muskegon | 14,892 16 | 49,816 40 | 2,170 79 | 1,336 70 | 104,506 34 | 39,066 60 | 211,788 99 | 9,990 00 | 39,589 67 | 261,368 66 |
| Newaygo | 5,023 58 | 21,718 44 | 148 23 | 842 50 | 31,842 42 | 8,221 59 | 67,796 76 | 2,092 28 | 21,905 34 | 91,794 38 |
| Oakland | 33,660 03 | 40,178 79 | 914 70 | 4,233 42 | 83,624 22 | 7,511 98 | 170,123 14 | 6,821 85 | 69,316 53 | 246,261 52 |
| Oceana | 5,066 06 | 19,882 60 | 70 91 | 837 57 | 28,531 85 | 8,194 31 | 57,583 30 | 7,383 00 | 17,909 15 | 82,875 45 |
| Ogemaw | 773 67 | 11,194 09 | 62 96 | 126 66 | 16,279 48 | 1,833 42 | 30,270 28 | 334 57 | 21,017 89 | 51,622 74 |
| Ontonagon | 2,212 51 | 6,757 50 | 554 00 | 200 00 | 56,481 49 | 2,612 27 | 68,817 77 | 14,600 00 | 15,650 59 | 99,068 36 |
| Osceola | 4,053 53 | 22,165 22 | 420 99 | 765 84 | 37,740 69 | 3,063 36 | 68,209 63 | 3,905 02 | 18,228 59 | 90,343 24 |
| Oscoda | 37 47 | 1,967 20 | 132 16 | 6 50 | 4,668 70 | 770 28 | 7,582 31 | 28 00 | 2,901 48 | 10,511 79 |
| Otsego | 1,422 63 | 7,546 51 | 450 89 | 188 16 | 19,513 93 | 2,458 42 | 31,580 54 | 325 07 | 9,212 78 | 41,118 39 |
| Ottawa | 16,499 27 | 50,237 68 | 735 37 | 1,175 67 | 61,148 56 | 2,661 81 | 132,458 36 | 5,045 97 | 43,799 59 | 181,303 92 |
| Presque Isle | 2,497 98 | 12,071 40 | 87 00 | 57 00 | 16,859 74 | 1,400 84 | 32,973 96 | 768 38 | 14,731 00 | 48,473 34 |

## TABLE V.—CONCLUDED.

| Counties. | Ordinary receipts. | | | | | | | Received from loans. | Money on hand July 10, 1905. | Total resources including amount on hand and loans. |
|---|---|---|---|---|---|---|---|---|---|---|
| | One-mill tax | Primary school interest fund. | Library moneys. | Tuition of non-resident pupils. | District taxes for all purposes. | Raised from all other sources. | Total net receipts. | | | |
| Roscommon | $141 15 | $1,748 88 | ........... | ........... | $3,681 46 | $4,177 25 | $9,748 74 | ........... | $3,628 24 | $13,376 98 |
| Saginaw | 12,244 05 | 97,325 54 | $918 12 | $2,447 95 | 220,579 69 | 13,642 05 | 347,157 40 | $27,143 96 | 75,157 05 | 449,458 41 |
| St. Clair | 30,006 95 | 60,089 62 | 5,726 47 | 1,084 88 | 78,223 29 | 4,160 08 | 179,291 29 | 9,369 76 | 32,466 32 | 221,127 37 |
| St. Joseph | 16,307 60 | 21,650 05 | 943 15 | 2,403 04 | 57,089 25 | 2,471 92 | 100,865 01 | 18,880 33 | 31,508 33 | 151,253 67 |
| Sanilac | 13,229 20 | 43,529 63 | 337 75 | 1,366 16 | 45,103 63 | 2,619 43 | 106,185 80 | 2,425 72 | 26,731 36 | 135.342 88 |
| Schoolcraft | 1,950 80 | 7,741 80 | 590 17 | 312 64 | 35,129 85 | 3,607 72 | 49,332 98 | 1,177 70 | 7,977 04 | 58,487 72 |
| Shiawassee | 14,429 45 | 31,750 88 | 294 33 | 1,959 99 | 69,581 39 | 3,147 25 | 121,163 29 | 18,541 69 | 21,105 93 | 160,810 91 |
| Tuscola | 14,705 89 | 40,319 32 | 384 29 | 2,873 93 | 41,939 45 | 3,472 03 | 103,694 91 | 6,007 86 | 37,536 67 | 147.239 44 |
| Van Buren | 15,452 38 | 35,351 14 | 1,290 89 | 4,687 92 | 61,482 55 | 3,489 70 | 121,754 58 | 11,335 27 | 27,811 34 | 160,901 19 |
| Washtenaw | 37,989 43 | 43,315 34 | 536 55 | 7,528 07 | 101,565 51 | 25,057 21 | 215,992 11 | 81,132 05 | 53,012 16 | 350,136 32 |
| Wayne | 52,325 82 | 399,011 04 | 7,920 29 | 2,437 42 | 874,925 19 | 323.757 30 | 1,660,377 06 | 104.372 45 | 473,630 71 | 2,238,380 22 |
| Wexford | 5,132 10 | 19,565 82 | 344 85 | 386 87 | 50,320 40 | 1,338 42 | 77,088 46 | 10,008 90 | 34,783 50 | 121,880 86 |

# TABLE VI.

*Expenditures of school districts as reported by school inspectors for the year ending July 9, 1906.*

| Counties. | Ordinary expenditures for maintaining the schools. | | | | | | | Paid on indebtedness (principal). | Amount on hand July 9, 1906. | Total expenditures including amount on hand and paid on indebtedness. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Paid men teachers. | Paid women teachers. | Paid for building, repairs, and site. | Paid for books and care of library. | Paid interest on loans. | Paid for all other purposes. | Total net expenses. | | | |
| Totals | $1,285,495 61 | $5,071,726 26 | $1,954,746 61 | $158,521 40 | $175,596 60 | $1,957,817 47 | $10,603,903 95 | $740,504 41 | $2,889,121 35 | $14,233,529 71 |
| Alcona | $3,515 00 | $8,595 50 | $1,983 18 | $11 21 | $305 32 | $2,989 85 | $17,400 06 | $579 04 | $9,663 72 | $27,642 82 |
| Alger | 5,535 00 | 21,226 00 | 14,780 25 | 334 40 | 611 80 | 13,586 38 | 56,072 83 | 2,000 00 | 9,628 12 | 67,700 95 |
| Allegan | 22,277 53 | 62,937 87 | 10,527 17 | 792 49 | 971 52 | 20,622 22 | 118,128 80 | 7,915 46 | 39,570 55 | 165,614 81 |
| Alpena | 4,214 00 | 32,280 32 | 9,306 02 | 727 77 | 224 99 | 11,337 63 | 58,090 73 | 12,178 31 | 7,014 22 | 77,283 26 |
| Antrim | 9,630 50 | 33,792 50 | 6,133 43 | 407 72 | 397 70 | 11,727 42 | 62,089 27 | 4,813 20 | 26,072 14 | 92,974 61 |
| Arenac | 6,354 30 | 14,691 75 | 7,038 41 | 268 83 | 826 83 | 7,901 59 | 37,061 71 | 2,846 50 | 17,704 53 | 57,632 74 |
| Baraga | 5,850 00 | 12,365 75 | 5,961 30 | 242 75 | 35 00 | 6,881 90 | 31,336 70 | 1,500 00 | 8,134 68 | 40,971 38 |
| Barry | 15,076 10 | 48,298 00 | 8,396 18 | 452 86 | 476 36 | 11,078 45 | 83,777 95 | 10,368 08 | 17,366 80 | 111,512 83 |
| Bay | 27,938 25 | 102,055 57 | 75,888 55 | 259 47 | 5,206 01 | 48,333 43 | 259,681 28 | 4,194 05 | 50,313 14 | 314,188 47 |
| Benzie | 7,867 51 | 19,806 65 | 2,946 14 | 380 91 | 809 82 | 6,971 63 | 38,782 66 | 2,404 83 | 9,364 08 | 50,551 57 |
| Berrien | 32,635 62 | 87,443 49 | 18,344 35 | 316 73 | 2,358 01 | 30,572 54 | 171,670 74 | 16,800 62 | 47,903 50 | 236,374 86 |
| Branch | 18,752 35 | 54,226 49 | 8,184 90 | 722 93 | 773 59 | 16,613 97 | 99,274 23 | 6,849 74 | 34,949 40 | 141,073 37 |
| Calhoun | 26,347 95 | 109,577 89 | 25,293 28 | 3,528 81 | 702 14 | 40,459 20 | 205,909 27 | 5,995 20 | 82,039 83 | 293,944 30 |
| Cass | 14,784 50 | 40,193 36 | 3,456 41 | 238 23 | 1,905 52 | 11,058 72 | 71,636 74 | 21,483 92 | 16,710 53 | 109,831 19 |
| Charlevoix | 7,163 25 | 34,956 74 | 6,194 18 | 495 40 | 2,951 31 | 10,493 99 | 62,254 87 | 10,958 50 | 20,982 86 | 94,196 23 |
| Cheboygan | 6,508 50 | 33,929 98 | 6,479 11 | 663 66 | 1,415 96 | 14,613 33 | 63,610 54 | 11,571 62 | 20,695 47 | 95,877 63 |
| Chippewa | 19,620 75 | 46,061 95 | 20,063 85 | 421 27 | 5,978 32 | 31,420 54 | 123,566 68 | 15,152 41 | 37,101 20 | 175,820 29 |
| Clare | 7,088 95 | 15,408 88 | 1,649 23 | 120 69 | 370 33 | 4,936 43 | 29,574 51 | 3,169 09 | 15,136 98 | 47,880 58 |
| Clinton | 12,727 25 | 45,567 90 | 6,246 66 | 494 19 | 546 79 | 13,654 14 | 79,236 93 | 3,967 44 | 27,421 69 | 110,626 06 |
| Crawford | 1,895 00 | 8,998 40 | 8,589 05 | 151 10 | 144 51 | 3,022 70 | 22,800 76 | 626 25 | 8,099 50 | 31,526 51 |
| Delta | 11,236 80 | 56,192 62 | 23,586 22 | 1,155 09 | 3,621 93 | 36,681 08 | 132,473 74 | 4,325 47 | 40,724 87 | 177,524 08 |
| Dickinson | 15,189 40 | 58,721 30 | 25,372 74 | 4,109 88 | 4,968 33 | 25,809 98 | 134,171 63 | 8,180 00 | 66,473 48 | 208,825 11 |
| Eaton | 15,471 28 | 66,372 11 | 9,265 22 | 750 57 | 460 06 | 18,475 23 | 110,794 47 | 5,279 39 | 28,608 32 | 144,682 18 |
| Emmet | 9,116 00 | 35,197 33 | 17,778 44 | 418 09 | 1,781 81 | 12,410 53 | 76,702 20 | 12,513 81 | 18,763 18 | 107,979 19 |
| Genesee | 26,880 60 | 77,855 46 | 8,815 96 | 9,261 95 | 3,638 57 | 35,953 60 | 162,406 14 | 12,315 59 | 21,090 73 | 195,812 46 |

## TABLE VI.—CONCLUDED.

| Counties. | Ordinary expenditures for maintaining the schools. | | | | | | | Paid on indebtedness (principal). | Amount on hand July 9, 1906. | Total expenditures including amount on hand and paid on indebtedness. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Paid men teachers. | Paid women teachers. | Paid for building, repairs and site. | Paid for books and care of library. | Paid interest on loans. | Paid for all other purposes. | Total net expenses. | | | |
| Gladwin | $3,755 50 | $14,982 50 | $23,118 06 | $269 69 | $1,209 41 | $4,861 39 | $48,296 55 | $2,326 72 | $14,219 65 | $64,842 92 |
| Gogebic | 8,500 00 | 61,725 63 | 34,472 68 | 658 51 | 4,111 40 | 37,555 76 | 147,023 98 | 8,254 51 | 46,761 14 | 202,039 63 |
| Grand Traverse | 7,611 59 | 44,394 11 | 5,037 45 | 120 55 | 1,701 86 | 15,828 74 | 74,694 30 | 9,331 29 | 15,120 18 | 99,145 77 |
| Gratiot | 16,354 00 | 50,784 28 | 27,695 80 | 638 80 | 1,290 97 | 19,969 12 | 116,732 97 | 8,481 82 | 22,883 43 | 148,098 22 |
| Hillsdale | 10,888 24 | 52,460 73 | 23,096 32 | 2,387 17 | 2,193 47 | 11,819 78 | 112,845 71 | 25,100 80 | 28,254 48 | 166,200 99 |
| Houghton | 44,732 50 | 214,934 73 | 66,972 25 | 3,804 95 | 4,873 04 | 102,728 55 | 438,046 02 | 15,420 50 | 235,483 17 | 688,949 69 |
| Huron | 25,418 25 | 39,663 13 | 32,616 67 | 308 46 | 2,965 81 | 15,006 57 | 115,978 89 | 6,600 79 | 47,629 51 | 170,209 19 |
| Ingham | 20,506 45 | 85,852 69 | 20,488 12 | 4,785 03 | 1,515 48 | 31,688 98 | 164,836 75 | 12,961 28 | 40,275 63 | 218,063 66 |
| Ionia | 12,845 43 | 66,546 05 | 16,869 78 | 406 32 | 465 14 | 19,112 56 | 116,245 28 | 3,317 72 | 36,748 35 | 156,306 35 |
| Iosco | 3,612 50 | 18,936 60 | 5,532 48 | 29 11 | 111 32 | 6,491 91 | 34,713 92 | 2,347 74 | 21,160 72 | 58,222 38 |
| Iron | 6,050 45 | 31,255 38 | 10,397 30 | 659 46 | 2,196 00 | 22,869 36 | 73,427 95 | 5,500 00 | 12,482 35 | 91,410 30 |
| Isabella | 12,092 25 | 31,026 50 | 6,947 82 | 436 80 | 1,442 43 | 12,055 50 | 64,001 30 | 4,817 00 | 20,953 86 | 89,772 16 |
| Jackson | 21,494 60 | 84,489 45 | 9,539 28 | 499 05 | 1,492 35 | 32,566 70 | 150,081 43 | 28,928 10 | 38,939 35 | 217,948 88 |
| Kalamazoo | 28,305 72 | 102,453 66 | 27,521 28 | 5,513 02 | 7,139 21 | 42,448 44 | 213,381 33 | 59,362 67 | 22,461 96 | 295,205 96 |
| Kalkaska | 2,894 00 | 17,870 00 | 2,864 76 | 171 78 | 946 55 | 4,376 01 | 29,123 10 | 6,312 39 | 13,495 03 | 48,930 52 |
| Kent | 47,274 10 | 331,724 12 | 118,196 76 | 1,785 62 | 20,425 70 | 144,721 53 | 664,127 83 | 53,333 78 | 177,841 73 | 895,303 34 |
| Keweenaw | 5,640 00 | 6,587 50 | 335 00 | 265 52 | .............. | 4,655 17 | 17,483 19 | .............. | 16,039 83 | 33,523 02 |
| Lake | 2,796 90 | 9,284 09 | 4,028 10 | 10 40 | 106 20 | 2,672 76 | 18,900 45 | 1,350 07 | 8,901 55 | 29,152 07 |
| Lapeer | 13,589 00 | 47,290 28 | 6,400 40 | 373 48 | 453 09 | 13,243 30 | 81,349 55 | 3,846 67 | 29,253 01 | 114,449 23 |
| Leelanau | 6,071 50 | 15,530 65 | 4,539 11 | 171 26 | 134 37 | 3,345 28 | 29,792 17 | 1,356 43 | 9,111 94 | 40,260 54 |
| Lenawee | 25,139 35 | 85,834 44 | 68,596 58 | 5,037 44 | 2,663 71 | 25,757 29 | 213,028 81 | 26,564 23 | 36,157 21 | 275,750 25 |
| Livingston | 11,339 23 | 36,147 88 | 6,144 04 | 189 59 | 79 20 | 9,955 36 | 63,855 30 | 1,443 34 | 14,295 50 | 79,594 14 |
| Luce | 2,970 00 | 9,660 00 | 1,300 65 | 121 25 | 51 29 | 6,532 26 | 20,635 45 | 3,513 71 | 8,057 99 | 32,207 15 |
| Mackinac | 5,912 50 | 17,122 50 | 4,373 67 | 190 66 | 672 64 | 8,138 52 | 36,410 49 | 2,488 94 | 14,360 57 | 53,260 00 |
| Macomb | 17,741 25 | 50,977 93 | 14,544 39 | 3,473 74 | 1,345 02 | 11,116 75 | 99,199 98 | 10,478 81 | 43,988 47 | 153,666 36 |
| Manistee | 10,814 25 | 54,656 42 | 5,871 94 | 202 97 | 1,014 36 | 18,985 05 | 91,644 99 | 5,811 99 | 28,406 13 | 125,863 11 |
| Marquette | 22,415 00 | 120,288 16 | 36,696 30 | 1,092 13 | 7,577 48 | 55,191 04 | 243,200 11 | 11,868 00 | 59,153 52 | 314,281 63 |
| Mason | 7,341 00 | 39,799 43 | 21,336 37 | 325 19 | 1,125 27 | 12,972 82 | 82,900 08 | 14,206 10 | 14,775 12 | 111,881 30 |
| Mecosta | 8,049 50 | 36,783 92 | 6,703 00 | 46 35 | 343 76 | 11,150 78 | 63,077 31 | 1,838 76 | 35,096 37 | 100,012 44 |
| Menominee | 12,128 65 | 59,182 14 | 11,852 23 | 319 88 | 4,608 92 | 21,990 59 | 110,082 41 | 7,662 24 | 27,963 42 | 145,708 07 |
| Midland | 6,069 50 | 25,345 95 | 2,882 37 | 56 60 | 403 23 | 9,480 63 | 44,238 28 | 3,701 89 | 15,892 56 | 63,832 73 |
| Missaukee | 5,545 00 | 19,379 60 | 5,096 55 | 71 68 | 1,314 33 | 6,654 20 | 38,060 36 | 5,073 67 | 16,996 81 | 60,130 84 |
| Monroe | 15,915 10 | 42,809 65 | 20,348 60 | 2,650 58 | 853 95 | 15,276 87 | 97,854 75 | 2,775 72 | 25,510 50 | 126,140 97 |
| Montcalm | 14,965 25 | 55,265 64 | 25,723 27 | 704 73 | 727 49 | 15,449 31 | 112,835 69 | 4,067 42 | 31,619 06 | 148,522 16 |
| Montmorency | 2,545 12 | 7,373 75 | 1,411 17 | 59 47 | 9 84 | 3,928 57 | 15,327 92 | 200 00 | 7,930 58 | 23,458 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Muskegon | 25,403 75 | 87,693 10 | 25,583 05 | 8,292 32 | 5,400 85 | 45,312 25 | 197,685 82 | 11,831 00 | 51,852 34 | 261,368 66 |
| Newaygo | 9,871 00 | 32,682 52 | 9,562 58 | 449 68 | 355 89 | 9,787 94 | 62,709 61 | 3,826 23 | 25,258 54 | 91,794 38 |
| Oakland | 21,481 40 | 86,195 41 | 43,046 07 | 1,329 03 | 4,950 39 | 40,634 49 | 197,636 79 | 8,933 03 | 39,691 70 | 246,261 52 |
| Oceana | 11,303 58 | 28,348 49 | 8,611 30 | 150 82 | 556 44 | 8,457 57 | 57,428 20 | 3,995 06 | 21,452 19 | 82,875 45 |
| Ogemaw | 3,085 00 | 15,883 40 | 2,646 59 | 41 70 | 1,492 66 | 4,268 76 | 27,418 11 | 702 56 | 23,502 07 | 51,622 74 |
| Ontonagon | 6,915 00 | 31,496 25 | 10,934 84 | 672 92 | 1,378 06 | 17,170 81 | 68,567 88 | 14,944 22 | 15,556 26 | 99,068 36 |
| Osceola | 10,926 90 | 34,993 60 | 8,015 87 | 187 18 | 385 05 | 9,363 07 | 63,871 67 | 5,246 36 | 21,225 21 | 90,343 24 |
| Oscoda | 529 20 | 4,727 42 | 514 10 | 57 00 | 38 00 | 1,074 08 | 6,939 80 | 453 90 | 3,118 09 | 10,511 79 |
| Otsego | 3,780 00 | 15,625 50 | 5,003 46 | 296 28 | 1,032 70 | 4,353 79 | 30,091 73 | 1,729 96 | 9,296 70 | 41,118 39 |
| Ottawa | 20,667 89 | 67,555 44 | 14,721 47 | 674 11 | 1,283 52 | 28,382 03 | 133,284 46 | 4,056 11 | 43,963 35 | 181,303 92 |
| Presque Isle | 5,139 00 | 13,507 00 | 4,955 04 | 80 17 | 855 84 | 5,407 05 | 29,944 10 | 3,522 74 | 15,006 50 | 48,473 34 |
| Roscommon | 885 75 | 3,683 50 | 1,369 11 | .............. | 150 25 | 1,060 85 | 7,149 46 | .............. | 6,227 52 | 13,376 98 |
| Saginaw | 40,306 63 | 160,386 24 | 80,070 23 | 4,695 81 | 2,971 05 | 77,702 75 | 366,182 71 | 17,061 91 | 66,263 79 | 449,458 41 |
| St. Clair | 19,852 50 | 94,521 99 | 10,306 41 | 5,797 31 | 2,194 09 | 48,019 99 | 180,692 29 | 6,538 13 | 33,896 95 | 221,127 37 |
| St. Joseph | 17,440 80 | 50,271 88 | 33,603 74 | 319 00 | 801 48 | 22,976 14 | 125,413 04 | 8,244 18 | 17,596 45 | 151,253 67 |
| Sanilac | 28,811 21 | 41,042 60 | 13,673 44 | 233 74 | 1,579 86 | 14,776 69 | 100,117 54 | 5,616 91 | 29,608 43 | 135,342 88 |
| Schoolcraft | 6,883 22 | 21,520 77 | 4,989 19 | 595 68 | 957 88 | 10,979 93 | 45,926 67 | 6,285 44 | 6,275 61 | 58,487 72 |
| Shiawassee | 17,818 00 | 65,104 09 | 17,462 53 | 570 99 | 1,290 94 | 23,889 69 | 126,136 24 | 10,513 90 | 24,160 77 | 160,810 91 |
| Tuscola | 19,485 75 | 50,674 10 | 12,961 93 | 349 50 | 1,128 47 | 15,459 31 | 100,059 36 | 5,762 82 | 41,417 26 | 147,239 44 |
| Van Buren | 20,675 00 | 63,364 17 | 14,360 91 | 1,391 86 | 1,648 19 | 18,103 17 | 119,548 30 | 11,509 91 | 29,847 98 | 160.901 19 |
| Washtenaw | 30,426 29 | 95,432 09 | 148,515 10 | 2,577 97 | 4,129 09 | 31,746 64 | 312,827 18 | 10,536 49 | 26,772 65 | 350.136 32 |
| Wayne | 144,166 99 | 849,103 23 | 457,665 81 | 65,015 75 | 21,477 65 | 276,050 28 | 1,813,479 71 | 43,849 50 | 331,051 01 | 2,238,880 22 |
| Wexford | 6,640 68 | 42,741 17 | 14,344 06 | 78 04 | 389 43 | 14,636 26 | 78,829 64 | 6,720 43 | 36,330 79 | 121,880 86 |

## TABLE VII.

*Miscellaneous statistics as reported by school inspectors for the year ending July 9, 1906.*

| Counties. | Bonded indebtedness of the districts. | Total indebtedness of the districts. | Amount due the districts. | Amount paid and due inspectors and members of school boards for services. | Amount paid and due township chairmen and other officers for services. |
|---|---|---|---|---|---|
| Totals | $3,504,397 78 | $3,667,955 69 | $413,590 45 | $19,767 81 | $43,143 26 |
| Alcona | $4,150 00 | $4,478 46 | $1,948 18 | $83 25 | $14 00 |
| Alger | 1,150 00 | 17,896 19 | ............ | 476 00 | 850 00 |
| Allegan | 17,727 14 | 19,491 21 | 7,494 55 | 222 60 | 61 05 |
| Alpena | ............ | 599 40 | 2,506 87 | 334 10 | 350 82 |
| Antrim | 3,300 00 | 4,447 43 | 4,490 39 | 85 38 | 14 50 |
| Arenac | 14,900 00 | 15,033 06 | 2,323 01 | 66 03 | 20 25 |
| Baraga | ............ | 2,000 00 | 63 00 | 143 20 | 781 80 |
| Barry | 9,010 00 | 10,600 51 | 2,334 96 | 110 75 | 21 50 |
| Bay | 125,600 00 | 129,770 50 | 6,700 66 | 269 00 | 890 50 |
| Benzie | 12,806 97 | 13,256 86 | 11,821 11 | 86 89 | 9 50 |
| Berrien | 32,950 00 | 36,730 22 | 5,951 12 | 138 50 | 453 50 |
| Branch | 12,900 00 | 13,298 18 | 1,041 95 | 125 25 | 218 00 |
| Calhoun | 14,460 00 | 14,628 70 | 2,421 99 | 96 50 | 448 50 |
| Cass | 35,400 00 | 35,480 00 | 3,781 92 | 228 50 | 12 75 |
| Charlevoix | 40,600 00 | 41,252 45 | 10,888 77 | 144 25 | 22 00 |
| Cheboygan | 37,106 00 | 37,398 63 | 8,935 95 | 154 75 | 206 75 |
| Chippewa | 126,710 00 | 127,780 00 | 12,522 46 | 332 00 | 1,140 00 |
| Clare | 1,833 34 | 2,209 18 | 2,116 28 | 175 10 | 84 75 |
| Cinton | 11,400 00 | 11,918 00 | 4,507 34 | 133 25 | 22 75 |
| Crawford | 6,750 00 | 7,350 96 | 1,725 99 | 88 50 | 22 50 |
| Delta | 92,278 00 | 92,455 52 | 7,590 42 | 433 90 | 1,658 50 |
| Dickinson | 119,295 00 | 122,008 22 | 527 56 | 274 00 | 1,650 00 |
| Eaton | 5,790 00 | 7,058 97 | 6,562 91 | 137 52 | 276 75 |
| Emmet | 35,650 00 | 35,860 74 | 10,675 89 | 131 50 | 21 25 |
| Genesee | 76,701 00 | 78,790 02 | 2,474 86 | 168 87 | 536 37 |
| Gladwin | 26,250 00 | 27,169 30 | 3,040 02 | 247 25 | 93 50 |
| Gogebic | 73,000 00 | 75,814 54 | ............ | 276 00 | 1,825 00 |
| Grand Traverse | 30,300 00 | 30,488 05 | 4,242 94 | 116 75 | 26 50 |
| Gratiot | 43,146 00 | 44,187 71 | 4,115 75 | 114 50 | 407 50 |
| Hillsdale | 40,635 00 | 62,716 05 | 2,059 74 | 148 56 | 156 75 |
| Houghton | 98,458 81 | 98,648 81 | 3,508 53 | 352 50 | 637 00 |
| Huron | 68,095 00 | 70,368 41 | 7,307 99 | 292 50 | 62 75 |
| Ingham | 26,075 00 | 28,570 00 | 4,054 94 | 75 25 | 1,534 25 |
| Ionia | 16,600 00 | 17,551 01 | 3,767 58 | 60 25 | 131 75 |
| Iosco | 1,444 89 | 2,327 95 | 9,633 55 | 157 35 | 246 00 |
| Iron | 90,500 00 | 90,500 00 | 7,623 25 | 564 00 | 774 40 |
| Isabella | 28,550 00 | 28,661 00 | 7,864 51 | 156 00 | 226 00 |
| Jackson | 6,366 00 | 27,228 10 | 3,776 16 | 1,163 00 | 18 00 |
| Kalamazoo | 132,600 00 | 134,698 34 | 3,237 26 | 91 40 | 5 25 |
| Kalkaska | 7,100 00 | 11,503 62 | 2,460 46 | 74 55 | 7 50 |
| Kent | 220,324 02 | 224,800 23 | 6,673 29 | 200 16 | 1,263 58 |
| Keweenaw | ............ | ............ | 3,120 86 | 184 50 | 225 00 |
| Lake | 400 00 | 1,165 31 | 4,047 04 | 134 00 | 21 25 |
| Lapeer | 2,825 00 | 3,238 55 | 2,574 38 | 75 75 | 82 00 |
| Leelanau | 2,533 00 | 2,569 43 | 2,085 52 | 103 75 | 9 75 |
| Lenawee | 50,800 00 | 53,651 00 | 1,777 78 | 213 25 | 312 25 |
| Livingston | 3,533 34 | 4,307 60 | 1,238 87 | 141 50 | 22 25 |
| Luce | ............ | 124 50 | 583 88 | 240 00 | 697 00 |
| Mackinac | 9,875 00 | 9,915 00 | 3,274 10 | 746 60 | 1,432 54 |
| Macomb | 23,686 00 | 23,953 07 | 2,892 20 | 170 50 | 152 50 |
| Manistee | 13,595 00 | 13,947 87 | 8,606 85 | 121 25 | 74 50 |
| Marquette | 170,000 00 | 170,000 00 | 1,897 49 | 932 00 | 3,705 00 |
| Mason | 31,585 00 | 31,699 00 | 14,262 72 | 126 50 | 215 00 |
| Mecosta | 5,200 00 | 5,696 98 | 5,551 80 | 103 25 | 224 25 |
| Menominee | 34,550 00 | 40,254 09 | 6,003 52 | 1,374 85 | 1,317 60 |

## TABLE VII.—CONCLUDED.

| Counties. | Bonded indebtedness of the districts. | Total indebtedness of the districts. | Amount due the districts. | Amount paid and due inspectors and members of school boards for services. | Amount paid and due township chairmen and other officers for services. |
|---|---|---|---|---|---|
| Midland | $3,409 00 | $4,507 80 | $3,985 28 | $147 50 | $106 50 |
| Missaukee | 13,035 00 | 16,193 39 | 4,685 84 | 123 75 | 35 50 |
| Monroe | 20,064 23 | 21,079 99 | 1,040 04 | 199 50 | 19 00 |
| Montcalm | 31,000 00 | 32,270 69 | 9,208 53 | 254 50 | 94 00 |
| Montmorency | .............. | 200 00 | 3,083 47 | 410 97 | 299 94 |
| Muskegon | 141,142 50 | 143,189 44 | 16,875 71 | 133 25 | 66 00 |
| Newaygo | 4,699 00 | 5,211 91 | 14,615 74 | 201 74 | 48 00 |
| Oakland | 92,834 00 | 94,842 20 | 1,600 41 | 259 50 | 146 50 |
| Oceana | 11,425 00 | 11,982 09 | 5,671 38 | 205 90 | 39 90 |
| Ogemaw | 19,292 94 | 19,773 30 | 3,464 35 | 168 56 | 33 25 |
| Ontonagon | 24,500 00 | 24,500 00 | 3,613 97 | 489 80 | 1,523 00 |
| Osceola | 5,275 00 | 6,321 59 | 9,848 55 | 193 25 | 47 00 |
| Oscoda | .............. | 288 66 | 1,257 86 | 52 50 | 57 90 |
| Otsego | 12,100 00 | 16,027 26 | 3,001 80 | 117 75 | 59 75 |
| Ottawa | 53,660 00 | 54,718 13 | 9,740 83 | 182 25 | 318 50 |
| Presque Isle | 15,464 60 | 18,532 86 | 2,009 69 | 159 34 | 148 54 |
| Roscommon | 3,050 00 | 3,960 50 | 2,755 02 | 51 00 | .............. |
| Saginaw | 79,400 00 | 79,605 80 | 6,215 21 | 769 65 | 3,411 50 |
| St. Clair | 39,425 00 | 41,039 37 | 3,201 35 | 249 50 | 211 50 |
| St. Joseph | 26,955 00 | 32,398 73 | 2,852 20 | 117 40 | 211 00 |
| Sanilac | 31,023 00 | 32,328 84 | 4,386 60 | 209 50 | 71 50 |
| Schoolcraft | 10,750 00 | 12,765 32 | 6,706 61 | 520 75 | 980 37 |
| Shiawassee | 40,900 00 | 42,415 95 | 1,924 20 | 111 95 | 307 65 |
| Tuscola | 21,450 00 | 23,357 32 | 7,246 27 | 272 05 | 52 75 |
| Van Buren | 29,515 00 | 32,297 86 | 6,787 38 | 123 75 | 64 50 |
| Washtenaw | 134,325 00 | 135,286 90 | 1,555 77 | 162 00 | 230 75 |
| Wayne | 530,165 00 | 531,877 27 | 17,975 52 | 360 50 | 8,835 50 |
| Wexford | 13,050 00 | 13,433 59 | 4,989 75 | 126 39 | 27 75 |

## TABLE VIII.

*Cost per capita of public schools of the State for the year ending July 9, 1906.*

| Counties. | Number of pupils included in school census in— | | Number of pupils enrolled in— | | Cost per capita for instruction based on school census in— | | | Cost per capita for instruction based on enrollment in— | | | Total expenses per capita during year based on enrollment in— | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Graded school districts. | Ungraded school districts. | Graded school districts. | Ungraded school districts. | Graded school districts. | Ungraded school districts. | All school districts. | Graded school districts. | Ungraded school districts. | All school districts. | Graded school districts. | Ungraded school districts. | All school districts. |
| Totals........ | 430,580 | 317,301 | 303,930 | 226,413 | $9 76 | $6 79 | $8 50 | $13 82 | $9 52 | $11 98 | $24 95 | $13 33 | $19 99 |
| Alcona............ | 193 | 1,900 | 155 | 1,349 | $8 86 | $5 47 | $5 87 | $11 03 | $7 70 | $8 05 | $14 34 | $11 25 | $11 56 |
| Alger............ | 1,442 | 556 | 1,139 | 434 | 12 02 | 16 93 | 13 39 | 15 23 | 21 70 | 17 01 | 34 70 | 38 11 | 35 65 |
| Allegan............ | 3,539 | 8,107 | 2,982 | 6,013 | 9 96 | 6 16 | 7 31 | 11 83 | 8 32 | 9 47 | 17 21 | 11 11 | 13 13 |
| Alpena............ | 3,908 | 2,753 | 2,064 | 1,749 | 5 40 | 5 58 | 5 47 | 10 23 | 8 78 | 9 54 | 17 51 | 12 54 | 15 23 |
| Antrim............ | 2,148 | 2,725 | 2,004 | 2,116 | 10 69 | 7 49 | 8 91 | 11 46 | 9 66 | 10 53 | 17 18 | 13 06 | 15 07 |
| Arenac............ | 1,390 | 2,354 | 1,224 | 1,647 | 6 29 | 5 22 | 5 62 | 7 15 | 7 46 | 7 33 | 15 35 | 11 10 | 12 91 |
| Baraga............ | 1,574 | 303 | 1,060 | 194 | 9 41 | 11 20 | 9 70 | 13 98 | 17 50 | 14 52 | 23 12 | 35 17 | 25 07 |
| Barry............ | 1,570 | 4,234 | 1,316 | 3,226 | 14 48 | 9 59 | 10 92 | 17 27 | 12 59 | 13 95 | 25 80 | 15 44 | 18 44 |
| Bay............ | 15,232 | 7,600 | 7,926 | 4,273 | 6 68 | 3 70 | 5 69 | 12 85 | 6 58 | 10 65 | 26 69 | 11 26 | 21 28 |
| Benzie............ | 1,667 | 1,606 | 1,422 | 1,298 | 8 95 | 7 89 | 8 45 | 10 50 | 9 81 | 10 17 | 15 22 | 13 12 | 14 25 |
| Berrien............ | 8,096 | 6,620 | 6,481 | 4,452 | 9 61 | 6 37 | 8 15 | 12 01 | 9 48 | 10 98 | 17 85 | 12 57 | 15 70 |
| Branch............ | 2,459 | 4,001 | 2,052 | 3,058 | 14 88 | 9 09 | 11 29 | 17 83 | 11 89 | 14 28 | 25 13 | 15 59 | 19 42 |
| Calhoun............ | 7,948 | 4,516 | 6,273 | 3,339 | 11 94 | 9 07 | 10 90 | 15 08 | 12 35 | 14 14 | 24 22 | 16 09 | 21 42 |
| Cass............ | 1,895 | 3,103 | 1,753 | 2,257 | 12 64 | 9 99 | 10 99 | 13 66 | 13 74 | 13 71 | 19 38 | 16 67 | 17 86 |
| Charlevoix........ | 2,826 | 2,636 | 2,271 | 2,009 | 8 78 | 6 56 | 7 71 | 10 92 | 8 61 | 9 84 | 16 98 | 11 79 | 14 54 |
| Cheboygan........ | 2,716 | 3,183 | 1,846 | 2,394 | 6 43 | 7 21 | 6 85 | 9 47 | 9 58 | 9 53 | 15 53 | 14 58 | 15 00 |
| Chippewa........ | 4,516 | 2,729 | 3,301 | 2,017 | 9 96 | 7 57 | 9 06 | 13 63 | 10 25 | 12 35 | 28 09 | 15 28 | 23 23 |
| Clare............ | 1,019 | 2,294 | 823 | 1,622 | 7 98 | 6 26 | 6 79 | 9 88 | 8 85 | 9 20 | 12 83 | 11 72 | 12 09 |
| Clinton............ | 1,827 | 4,766 | 1,690 | 3,241 | 12 08 | 7 59 | 8 84 | 13 07 | 11 17 | 11 82 | 19 59 | 14 22 | 16 06 |
| Crawford.......... | 542 | 663 | 485 | 537 | 9 44 | 8 70 | 9 04 | 10 55 | 10 75 | 10 65 | 28 00 | 17 08 | 22 30 |
| Delta............ | 5,007 | 4,029 | 3,587 | 2,797 | 8 00 | 6 79 | 7 46 | 11 17 | 9 78 | 10 56 | 24 53 | 15 90 | 20 75 |
| Dickinson......... | 4,920 | 1,692 | 3,614 | 1,239 | 10 86 | 12 09 | 11 25 | 14 78 | 16 51 | 15 23 | 25 78 | 33 22 | 27 64 |
| Eaton............ | 3,042 | 4,229 | 2,645 | 3,170 | 13 39 | 9 71 | 11 25 | 15 40 | 12 96 | 14 07 | 22 17 | 16 44 | 19 05 |
| Emmet............ | 2,930 | 2,493 | 2,212 | 1,747 | 8 86 | 7 36 | 8 17 | 11 74 | 10 50 | 11 19 | 23 38 | 14 31 | 19 37 |
| Genesee........... | 5,432 | 5,266 | 4,254 | 4,019 | 11 29 | 8 23 | 9 79 | 14 42 | 10 79 | 12 66 | 25 30 | 13 62 | 19 63 |
| Gladwin........... | 774 | 2,313 | 682 | 1,688 | 8 10 | 5 38 | 6 07 | 9 20 | 7 38 | 7 90 | 35 83 | 14 13 | 20 38 |
| Gogebic........... | 5,385 | 695 | 4,376 | 569 | 11 51 | 11 86 | 11 55 | 14 16 | 14 48 | 14 20 | 27 44 | 47 31 | 29 72 |
| Grand Traverse.... | 3,118 | 3,198 | 2,957 | 2,497 | 9 98 | 6 52 | 8 23 | 10 53 | 8 35 | 9 53 | 15 97 | 10 98 | 13 69 |
| Gratiot........... | 2,919 | 5,604 | 2,577 | 4,324 | 10 30 | 6 61 | 7 87 | 11 67 | 8 56 | 9 72 | 26 87 | 10 97 | 16 91 |
| Hillsdale.......... | 2,872 | 4,524 | 2,533 | 3,402 | 12 42 | 8 32 | 9 91 | 14 18 | 11 07 | 12 35 | 23 16 | 15 92 | 19 01 |
| Houghton......... | 20,138 | 4,376 | 13,913 | 3,002 | 10 85 | 9 39 | 10 59 | 15 70 | 13 69 | 15 35 | 26 69 | 22 22 | 25 89 |
| Huron............ | 4,268 | 8,071 | 3,143 | 5,641 | 6 77 | 4 47 | 5 27 | 9 20 | 6 40 | 7 40 | 18 48 | 10 26 | 13 20 |
| Ingham............ | 6,911 | 3,798 | 5,341 | 2,828 | 10 52 | 8 84 | 9 93 | 13 62 | 11 88 | 13 10 | 22 78 | 15 25 | 20 17 |
| Ionia............ | 4,234 | 4,575 | 3,272 | 3,314 | 10 61 | 7 52 | 9 01 | 13 73 | 10 39 | 12 05 | 21 79 | 13 55 | 17 65 |
| Iosco............ | 2,368 | 1,191 | 1,732 | 801 | 6 73 | 5 54 | 6 33 | 9 20 | 8 24 | 8 90 | 13 78 | 13 52 | 13 70 |
| Iron............ | 2,738 | 321 | 2,165 | 234 | 12 03 | 13 58 | 12 19 | 15 21 | 18 64 | 15 55 | 29 35 | 42 12 | 30 60 |
| Isabella........... | 1,621 | 5,724 | 887 | 3,961 | 7 94 | 5 28 | 5 87 | 14 53 | 7 63 | 8 85 | 26 09 | 10 31 | 48 48 |
| Jackson........... | 6,751 | 4,365 | 4,798 | 3,033 | 10 35 | 8 26 | 9 53 | 14 57 | 11 89 | 13 53 | 20 93 | 16 37 | 19 16 |
| Kalamazoo......... | 9,063 | 3,921 | 6,558 | 2,880 | 10 41 | 9 27 | 10 07 | 14 39 | 12 63 | 13 85 | 25 51 | 16 00 | 22 60 |
| Kalkaska.......... | 584 | 1,679 | 541 | 1,353 | 10 09 | 8 85 | 9 17 | 10 90 | 10 98 | 10 96 | 16 19 | 15 04 | 15 37 |
| Kent............ | 30,469 | 9,364 | 18,335 | 6,807 | 10 56 | 6 10 | 9 51 | 17 55 | 8 38 | 15 07 | 31 62 | 12 38 | 26 41 |
| Keweenaw......... | ........ | 1,451 | ........ | 1,095 | ...... | 8 42 | 8 42 | ...... | 11 16 | 11 16 | ...... | 15 97 | 15 97 |
| Lake............ | 521 | 992 | 516 | 753 | 7 26 | 8 36 | 7 98 | 7 33 | 11 01 | 9 52 | 12 76 | 16 35 | 14 87 |
| Lapeer............ | 2,251 | 5,152 | 1,864 | 3,799 | 11 81 | 6 65 | 8 22 | 14 27 | 9 02 | 10 75 | 20 03 | 11 58 | 14 36 |
| Leelanau.......... | 1,038 | 2,672 | 793 | 1,882 | 6 87 | 5 41 | 5 82 | 8 99 | 7 69 | 8 07 | 12 54 | 10 54 | 11 13 |
| Lenawee.......... | 5,521 | 6,704 | 4,243 | 4,907 | 10 34 | 8 03 | 9 07 | 13 46 | 10 97 | 12 12 | 34 04 | 13 97 | 23 28 |
| Livingston......... | 1,236 | 3,565 | 1,022 | 2,719 | 12 46 | 8 99 | 9 80 | 15 07 | 11 79 | 12 69 | 22 24 | 15 12 | 17 07 |
| Luce............ | 610 | 329 | 576 | 256 | 14 76 | 11 01 | 13 45 | 15 63 | 14 16 | 15 18 | 22 04 | 31 00 | 24 80 |
| Mackinac.......... | 852 | 1,796 | 563 | 1,278 | 8 29 | 8 89 | 8 69 | 12 54 | 12 49 | 12 51 | 19 31 | 19 98 | 19 77 |
| Macomb........... | 4,530 | 5,448 | 3,281 | 3,307 | 8 69 | 5 38 | 6 88 | 12 00 | 8 86 | 10 43 | 18 26 | 11 87 | 15 05 |

## TABLE VIII.—CONCLUDED.

| Counties. | Number of pupils included in school census in— | | Number of pupils enrolled in— | | Cost per capita for instruction based on school census in— | | | Cost per capita for instruction based on enrollment in— | | | Total expenses per capita during year based on enrollment in— | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Graded school districts. | Ungraded school districts. | Graded school districts. | Ungraded school districts. | Graded school districts. | Ungraded school districts. | All school districts. | Graded school districts. | Ungraded school districts. | All school districts. | Graded school districts. | Ungraded school districts. | All school districts. |
| Manistee | 5,581 | 3,561 | 3,137 | 2,408 | $8 26 | $5 42 | $7 16 | $14 70 | $8 02 | $11 80 | $20 76 | $11 00 | $16 52 |
| Marquette | 11,240 | 2,342 | 7,946 | 1,455 | 10 71 | 9 52 | 10 50 | 15 15 | 15 33 | 15 17 | 25 72 | 26 73 | 25 87 |
| Mason | 2,898 | 3,802 | 1,936 | 2,715 | 9 28 | 5 32 | 7 03 | 13 89 | 7 49 | 10 13 | 27 22 | 11 12 | 17 82 |
| Mecosta | 2,171 | 4,378 | 1,725 | 3,324 | 8 73 | 5 84 | 6 84 | 10 98 | 7 78 | 8 87 | 16 71 | 10 30 | 12 49 |
| Menominee | 4,654 | 5,135 | 2,847 | 3,651 | 8 43 | 6 24 | 7 28 | 13 78 | 8 78 | 10 97 | 21 29 | 13 54 | 16 94 |
| Midland | 1,271 | 3,516 | 1,172 | 2,570 | 9 79 | 5 39 | 6 56 | 10 62 | 7 37 | 8 39 | 15 99 | 9 91 | 11 82 |
| Missaukee | 1,088 | 2,599 | 900 | 2,036 | 7 56 | 6 42 | 6 76 | 9 14 | 8 20 | 8 48 | 14 27 | 12 38 | 12 96 |
| Monroe | 2,571 | 7,327 | 1,529 | 5,261 | 7 01 | 5 55 | 5 93 | 11 78 | 7 73 | 8 64 | 22 20 | 12 14 | 14 41 |
| Montcalm | 3,340 | 6,698 | 2,951 | 4,770 | 9 99 | 5 50 | 6 90 | 11 30 | 7 72 | 9 09 | 21 54 | 10 33 | 14 61 |
| Montmorency | 291 | 875 | 275 | 605 | 9 51 | 8 17 | 8 50 | 10 07 | 11 81 | 11 27 | 16 22 | 17 96 | 17 41 |
| Muskegon | 8,437 | 3,639 | 7,273 | 2,641 | 18 22 | 5 98 | 9 36 | 12 55 | 8 23 | 11 40 | 22 89 | 11 81 | 19 94 |
| Newaygo | 1,403 | 4,744 | 1,281 | 3,629 | 9 46 | 6 17 | 6 92 | 10 36 | 8 06 | 8 66 | 15 14 | 11 93 | 12 77 |
| Oakland | 5,334 | 5,608 | 4,464 | 3,960 | 11 19 | 8 56 | 9 85 | 13 37 | 12 12 | 12 79 | 29 31 | 15 13 | 22 64 |
| Oceana | 1,158 | 4,316 | 1,123 | 3,244 | 11 13 | 6 19 | 7 24 | 11 48 | 8 24 | 9 08 | 14 92 | 12 53 | 13 12 |
| Ogemaw | 977 | 2,167 | 830 | 1,494 | 6 59 | 5 78 | 6 03 | 7 76 | 8 38 | 8 17 | 11 46 | 11 98 | 11 79 |
| Ontonagon | 1,531 | 1,063 | 1,268 | 817 | 16 19 | 12 81 | 14 80 | 15 60 | 16 66 | 18 42 | 36 53 | 27 22 | 32 88 |
| Osceola | 1,816 | 4,276 | 1,541 | 3,142 | 11 14 | 6 00 | 7 53 | 13 13 | 8 17 | 9 80 | 17 86 | 11 57 | 13 63 |
| Oscoda | ........ | 714 | ........ | 537 | ...... | 7 36 | 7 36 | ...... | 9 78 | 9 78 | ...... | 12 92 | 12 92 |
| Otsego | 1,065 | 1,205 | 887 | 877 | 9 71 | 7 52 | 8 54 | 11 66 | 10 33 | 11 00 | 18 50 | 15 59 | 17 05 |
| Ottawa | 7,812 | 6,160 | 5,635 | 4,386 | 7 10 | 5 31 | 6 31 | 9 85 | 7 45 | 8 80 | 15 50 | 10 46 | 13 30 |
| Presque Isle | 1,220 | 2,258 | 982 | 1,176 | 7 60 | 4 10 | 5 35 | 9 44 | 7 97 | 8 64 | 14 87 | 13 04 | 13 87 |
| Roscommon | 189 | 395 | 122 | 277 | 6 98 | 8 22 | 7 82 | 10 81 | 11 73 | 11 45 | 14 91 | 19 24 | 17 91 |
| Saginaw | 15,972 | 10,918 | 9,462 | 6,812 | 9 34 | 4 34 | 7 47 | 15 87 | 7 55 | 12 33 | 30 64 | 11 17 | 22 49 |
| St. Clair | 8,898 | 7,363 | 5,540 | 5,330 | 7 78 | 6 13 | 7 03 | 12 49 | 8 46 | 10 52 | 21 49 | 11 56 | 16 62 |
| St. Joseph | 2,914 | 3,072 | 2,446 | 2,387 | 13 13 | 9 58 | 11 31 | 15 65 | 12 33 | 14 01 | 35 29 | 16 37 | 25 95 |
| Sanilac | 3,485 | 8,071 | 2,833 | 6,265 | 7 39 | 5 46 | 6 04 | 9 08 | 7 03 | 7 67 | 13 84 | 9 70 | 10 99 |
| Schoolcraft | 1,508 | 1,143 | 1,029 | 891 | 11 07 | 10 24 | 10 71 | 16 22 | 13 14 | 14 79 | 26 19 | 21 29 | 23 92 |
| Shiawassee | 4,352 | 4,203 | 3,493 | 3,067 | 11 52 | 7 79 | 9 69 | 14 35 | 10 68 | 12 64 | 24 18 | 13 58 | 19 22 |
| Tuscola | 2,791 | 7,749 | 2,274 | 5,432 | 10 01 | 5 44 | 6 65 | 12 28 | 7 77 | 9 10 | 17 50 | 11 09 | 12 98 |
| Van Buren | 4,023 | 5,733 | 3,376 | 4,155 | 10 79 | 7 08 | 8 61 | 12 86 | 9 77 | 11 15 | 19 32 | 13 07 | 15 87 |
| Washtenaw | 6,700 | 5,031 | 4,883 | 3,409 | 12 74 | 8 04 | 10 72 | 17 48 | 11 86 | 15 17 | 50 60 | 16 34 | 37 72 |
| Wayne | 101,984 | 8,233 | 64,910 | 5,095 | 9 30 | 5 37 | 9 01 | 14 62 | 8 68 | 14 18 | 26 54 | 17 09 | 25 90 |
| Wexford | 3,302 | 2,821 | 2,588 | 2,068 | 8 48 | 7 56 | 8 06 | 10 83 | 10 22 | 10 56 | 18 72 | 14 54 | 16 85 |

# TABLE IX.

*Statistics of township and district libraries as reported by school inspectors for the year ending July 9, 1906.*

| Counties. | Number of townships forfeiting library money. | Number of townships maintaining libraries. | Number of volumes added to township libraries during the year. | Whole number of volumes in township libraries. | Amount of taxes voted for township libraries. | Amount of fines, etc., received from county treasurer for township libraries. | Amount paid for books and care of township libraries. | Amount of township library money on hand July 9, 1906. | Number of districts maintaining libraries. | Number of volumes added to district libraries during the year. | Whole number of volumes in district libraries. | Amount paid for the support of district libraries. | Amount of fines, etc., received from county treasurer for district libraries. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Totals | 868 | 355 | 9,667 | 167,054 | $3,380 39 | $8,224 43 | $11,457 17 | $19,310 56 | 5,063 | 90,239 | 1,193,899 | $158,521 40 | $64,195 91 |
| Alcona | 8 | 3 | ...... | 458 | ...... | $8 46 | $10 00 | $213 21 | 13 | 111 | 690 | $11 21 | $45 48 |
| Alger | 8 | ...... | ...... | ...... | ...... | ...... | ...... | ...... | 7 | 199 | 1,495 | 334 40 | 364 90 |
| Allegan | 16 | 8 | 1,585 | 8,409 | $111 79 | 309 84 | 368 29 | 250 70 | 139 | 720 | 13,420 | 792 49 | 973 23 |
| Alpena | 5 | 2 | ...... | 420 | ...... | 55 11 | 10 00 | 243 40 | 8 | 1 | 348 | 727 77 | 709 75 |
| Antrim | 7 | 8 | 207 | 2,553 | 375 00 | 190 32 | 644 48 | 751 68 | 32 | 369 | 3,434 | 407 72 | 276 85 |
| Arenac | 11 | ...... | ...... | ...... | ...... | ...... | ...... | ...... | 29 | 277 | 2,966 | 268 83 | 203 64 |
| Baraga | 5 | ...... | ...... | ...... | ...... | ...... | ...... | 21 18 | 4 | 54 | 1,237 | 242 75 | ...... |
| Barry | 13 | 3 | 82 | 1,229 | ...... | 15 70 | 94 41 | 34 83 | 104 | 805 | 10,487 | 452 86 | 593 41 |
| Bay | 6 | 8 | 157 | 4,684 | ...... | 376 38 | 268 28 | 350 94 | 54 | 373 | 63,440 | 259 47 | 431 35 |
| Benzie | 3 | 9 | ...... | 2,905 | ...... | 28 70 | 125 00 | 152 08 | 28 | 650 | 4,760 | 380 91 | 25 84 |
| Berrien | 16 | 4 | 144 | 5,569 | 390 00 | 132 39 | 300 38 | 289 16 | 139 | 1,077 | 21,827 | 316 73 | 1,165 69 |
| Branch | 11 | 5 | 323 | 4,957 | 300 00 | 127 55 | 521 10 | 502 83 | 91 | 1,676 | 7,633 | 722 93 | 736 29 |
| Calhoun | 16 | 2 | 72 | 1,041 | ...... | 77 30 | 120 53 | 93 65 | 119 | 2,370 | 33,970 | 3,528 81 | 1,238 30 |
| Cass | 9 | 6 | 352 | 3,184 | ...... | 24 87 | 548 84 | 101 62 | 66 | 420 | 6,953 | 238 23 | 308 90 |
| Charlevoix | 10 | 5 | 135 | 2,918 | 500 00 | 214 75 | 294 49 | 217 99 | 37 | 489 | 3,007 | 495 40 | 211 06 |
| Cheboygan | 13 | 4 | 158 | 1,404 | ...... | 51 89 | 111 68 | 147 84 | 38 | 786 | 8,595 | 663 66 | 447 92 |
| Chippewa | 14 | ...... | ...... | ...... | ...... | ...... | ...... | ...... | 25 | 487 | 3,905 | 421 27 | 1,052 87 |
| Clare | 12 | 3 | ...... | 872 | ...... | ...... | 9 95 | 76 98 | 21 | 211 | 2,211 | 120 69 | 30 |
| Clinton | 12 | 4 | 134 | 1,992 | ...... | 169 06 | 76 38 | 128 10 | 93 | 706 | 8,668 | 494 19 | 802 22 |
| Crawford | 3 | 5 | 204 | 1,385 | ...... | 113 70 | 250 50 | 26 40 | 11 | 141 | 1,310 | 151 10 | 5 69 |
| Delta | 11 | 2 | 5 | 510 | 25 00 | 10 23 | 24 00 | 6 93 | 15 | 165 | 4,534 | 1,155 09 | 256 43 |
| Dickinson | 5 | 1 | 221 | 609 | ...... | ...... | ...... | 33 30 | 8 | 2,287 | 13,052 | 4,109 88 | 4,136 57 |
| Eaton | 8 | 8 | 425 | 6,203 | ...... | 116 51 | 627 29 | 531 41 | 111 | 1,471 | 14,894 | 750 57 | 553 96 |
| Emmet | 5 | 10 | 314 | 3,648 | 100 00 | 207 00 | 259 05 | 796 68 | 53 | 533 | 4,561 | 418 09 | 881 96 |
| Genesee | 17 | 1 | 67 | 1,167 | ...... | 61 52 | 36 05 | 61 52 | 137 | 2,148 | 23,244 | 9,261 95 | 1,765 43 |
| Gladwin | 10 | 2 | ...... | 704 | ...... | ...... | 17 00 | 23 58 | 30 | 233 | 2,871 | 209 69 | 307 86 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gogebic | 4 | 1 | | | | | | | 6 | 602 | 4,787 | 658 51 | 564 77 |
| Grand Traverse | 2 | 11 | 183 | 4,983 | | 244 64 | 306 29 | 435 62 | 36 | 502 | 4,523 | 120 55 | 116 65 |
| Gratiot | 17 | | | | | | | | 125 | 916 | 15,028 | 638 50 | 693 65 |
| Hillsdale | 17 | 1 | | 526 | | 7 63 | 12 00 | 7 63 | 144 | 1,381 | 11,749 | 2,387 17 | 860 50 |
| Houghton | 11 | 3 | 102 | 3,[illegible] | | 453 52 | 418 97 | 370 86 | 19 | 3,144 | 22,857 | 3,804 95 | 2,985 02 |
| Huron | 20 | 7 | 78 | 2,315 | 50 00 | 10 00 | 96 00 | 131 94 | 88 | 1,122 | 7,765 | 308 46 | 449 76 |
| Ingham | 16 | | | | | | | | 126 | 1,986 | 28,995 | 4,785 03 | 921 59 |
| Ionia | 15 | 1 | 175 | 1,500 | 1,000 00 | | 163 16 | 890 34 | 112 | 575 | 9,188 | 406 32 | 271 94 |
| Iosco | 6 | 4 | 68 | 1,074 | | 25 68 | 71 66 | 92 69 | 17 | 94 | 3,502 | 29 11 | 113 37 |
| Iron | 7 | | | | | | | | 7 | 526 | 5,181 | 659 46 | 372 72 |
| Isabella | 13 | 3 | 20 | 700 | | 19 20 | 14 00 | 163 97 | 79 | 606 | 4,769 | 436 80 | 212 05 |
| Jackson | 19 | | | | | | | | 138 | 1,117 | 16,490 | 499 05 | 353 67 |
| Kalamazoo | 14 | 2 | 123 | 1,607 | | | 161 59 | 190 61 | 96 | 2,188 | 45,615 | 5,513 02 | 1,450 98 |
| Kalkaska | 8 | 3 | | 663 | | 15 32 | 40 56 | 217 46 | 23 | 262 | 1,761 | 171 78 | 80 98 |
| Kent | 18 | 6 | 199 | 4,055 | | 73 90 | 193 92 | 135 56 | 186 | 11,609 | 99,951 | 1,785 62 | 1,819 31 |
| Keweenaw | 2 | 3 | | 720 | 25 00 | | 15 00 | 75 42 | 2 | 300 | 1,525 | 265 52 | |
| Lake | 3 | 8 | 63 | 2,385 | 15 00 | 142 60 | 145 54 | 221 54 | 7 | 28 | 588 | 10 40 | 100 33 |
| Lapeer | 14 | 4 | 60 | 1,771 | 10 60 | 32 38 | 70 92 | 250 35 | 116 | 833 | 12,716 | 373 48 | 319 33 |
| Leelanau | 1 | 10 | 367 | 3,427 | 25 00 | 221 01 | 205 65 | 581 00 | 25 | 122 | 2,138 | 171 26 | 99 31 |
| Lenawee | 20 | 2 | 45 | 815 | 18 00 | 62 00 | 33 00 | 30 80 | 164 | 1,870 | 39,460 | 5,037 44 | 2,265 07 |
| Livingston | 14 | 2 | | 770 | | 10 91 | | 132 78 | 49 | 220 | 5,449 | 189 59 | 540 81 |
| Luce | 4 | | | | | | | 21 07 | 3 | 1 | 1,430 | 121 25 | 250 61 |
| Mackinac | 10 | 1 | | 135 | | | 5 00 | | 7 | 125 | 1,937 | 190 66 | 208 52 |
| Macomb | 12 | 2 | | 678 | | 19 63 | 40 00 | 84 68 | 75 | 2,286 | 17,291 | 3,473 74 | 1,585 75 |
| Manistee | 7 | 5 | 113 | 1,163 | | 51 97 | 107 95 | 331 66 | 44 | 566 | 5,404 | 302 97 | 502 31 |
| Marquette | 17 | 1 | | 256 | | 3 12 | | | 17 | 484 | 10,859 | 1,092 13 | 1,736 07 |
| Mason | 7 | 7 | 119 | 3,091 | 50 00 | 75 95 | 155 95 | 130 61 | 39 | 643 | 6,897 | 325 19 | 189 86 |
| Mecosta | 13 | 3 | 3 | 941 | 50 00 | 46 76 | 82 25 | 93 68 | 71 | 122 | 5,335 | 46 35 | 233 16 |
| Menominee | 9 | 1 | 66 | 525 | | 6 35 | 149 46 | 49 40 | 26 | 389 | 6,361 | 319 88 | 225 70 |
| Midland | 12 | 4 | | 217 | | 21 06 | 18 59 | 13 28 | 33 | 114 | 2,696 | 56 60 | 50 31 |
| Missaukee | 6 | 8 | 135 | 1,628 | 50 00 | 73 52 | 126 46 | 91 40 | 25 | 271 | 2,388 | 71 68 | 89 90 |
| Monroe | 9 | 6 | 111 | 1,846 | | 55 34 | 77 38 | 101 86 | 133 | 2,592 | 16,938 | 2,650 58 | 1,023 15 |
| Montcalm | 14 | 6 | 235 | 2,738 | | 150 11 | 180 32 | 313 17 | 94 | 1,163 | 10,571 | 704 73 | 908 47 |
| Montmorency | 5 | 2 | | 192 | | 35 99 | 13 00 | 89 87 | 2 | 59 | 526 | 59 47 | 119 58 |
| Muskegon | 3 | 14 | 195 | 5,807 | 50 00 | 103 79 | 239 02 | 552 18 | 46 | 2,095 | 46,979 | 8,292 32 | 2,170 79 |
| Newaygo | 13 | 9 | 59 | 1,913 | | 195 69 | 125 25 | 138 64 | 91 | 806 | 7,752 | 449 68 | 148 23 |
| Oakland | 22 | 3 | 100 | 2,545 | | 141 10 | 135 30 | 49 00 | 111 | 1,199 | 17,478 | 1,329 03 | 914 70 |
| Oceana | 1 | 15 | 370 | 7,671 | 110 00 | 834 51 | 586 14 | 1,028 15 | 54 | 362 | 4,715 | 150 82 | 70 91 |
| Ogemaw | 8 | 4 | 154 | 2,586 | | 243 22 | 184 45 | 148 51 | 17 | 65 | 1,048 | 41 70 | 62 96 |
| Ontonagon | 9 | 1 | 143 | 206 | | 86 83 | 79 47 | 7 36 | 5 | 605 | 2,246 | 672 92 | 554 00 |
| Osceola | 9 | 7 | 263 | 2,984 | | 213 73 | 355 02 | 276 77 | 51 | 637 | 5,789 | 187 18 | 420 99 |
| Oscoda | 3 | 1 | | 478 | | 135 61 | 20 00 | 136 64 | 4 | 90 | 399 | 57 00 | 132 16 |
| Otsego | 2 | 7 | 84 | 4,013 | | 374 10 | 301 29 | 1,141 31 | 26 | 247 | 2,238 | 296 28 | 450 89 |
| Ottawa | 5 | 10 | 361 | 4,843 | | 418 80 | 294 02 | 645 02 | 65 | 721 | 9,342 | 674 11 | 735 37 |

## TABLE IX.—CONCLUDED.

| Counties | Number of townships forfeiting library money. | Number of townships maintaining libraries. | Number of volumes added to township libraries during the year. | Whole number of volumes in township libraries. | Amount of taxes voted for township libraries. | Amount of fines, etc., received from county treasurer for township libraries. | Amount paid for books and care of township libraries. | Amount of township library money on hand July 9, 1906. | Number of districts maintaining libraries. | Number of volumes added to district libraries during the year. | Whole number of volumes in district libraries. | Amount paid for the support of district libraries. | Amount of fines, etc., received from county treasurer for district libraries. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Presque Isle | 13 | 1 | ........ | 18 | ............ | ............ | ............ | ............ | 10 | 174 | 961 | $80 17 | $87 00 |
| Roscommon | 3 | 4 | 75 | 836 | ............ | $110 23 | $61 02 | $157 54 | 1 | ...... | 24 | ............ | ............ |
| Saginaw | 18 | 9 | 159 | 5,842 | ............ | 122 52 | 271 86 | 539 01 | 78 | 2,955 | 34,548 | 4,695 81 | 918 12 |
| St. Clair | 20 | 3 | ........ | 1,900 | ............ | 4 93 | 15 00 | 19 58 | 143 | 3,108 | 32,814 | 5,797 31 | 5,726 47 |
| St. Joseph | 14 | 2 | 90 | 1,147 | $200 00 | 54 24 | 180 52 | 33 13 | 117 | 545 | 11,277 | 319 00 | 943 15 |
| Sanilac | 17 | 9 | 35 | 2,308 | ............ | 72 61 | 93 37 | 120 93 | 82 | 1,152 | 5,784 | 233 74 | 337 75 |
| Schoolcraft | 8 | 1 | ........ | 270 | ............ | 34 90 | ............ | 34 90 | 8 | 278 | 2,627 | 595 68 | 590 17 |
| Shiawassee | 15 | 1 | 130 | 800 | 15 00 | 15 75 | 62 40 | 51 33 | 115 | 839 | 11,039 | 570 99 | 294 33 |
| Tuscola | 14 | 9 | 163 | 3,024 | ............ | 177 24 | 202 26 | 390 81 | 80 | 528 | 7,531 | 349 80 | 384 29 |
| Van Buren | 12 | 6 | 51 | 1,829 | ............ | 104 25 | 159 76 | 94 39 | 133 | 2,426 | 15,338 | 1,391 86 | 1,290 89 |
| Washtenaw | 17 | 8 | 109 | 6,368 | ............ | 295 09 | 107 64 | 55 55 | 116 | 1,346 | 29,705 | 2,577 97 | 536 55 |
| Wayne | 15 | 5 | 191 | 3,630 | ............ | 100 09 | 151 32 | 2,880 61 | 131 | 12,323 | 245,005 | 65,015 75 | 7,920 29 |
| Wexford | 5 | 11 | 105 | 5,274 | ............ | 235 33 | 209 83 | 503 94 | 33 | 101 | 4,069 | 78 04 | 344 85 |

## TABLE X.

*Branches of instruction as reported by school inspectors for the year ending July 9, 1906.*

| Counties. | Number of districts in which instruction is given in— | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Algebra. | Arithmetic. | Botany. | Civil government. | General history. | Geography. | Geometry. | Grammar. | Orthography. | Penmanship. | Physics. | Physiology. | Reading. | U. S. history. |
| Totals.......... | 1,413 | 7,059 | 776 | 5,558 | 1,435 | 6,795 | 511 | 6,838 | 4,381 | 5,061 | 565 | 6,828 | 6,978 | 6,665 |
| Alcona.............. | 5 | 31 | 2 | 23 | 5 | 34 | 2 | 33 | 14 | 28 | 2 | 32 | 31 | 29 |
| Alger.............. | 7 | 8 | 2 | 7 | 5 | 9 | 3 | 9 | 6 | 7 | 3 | 8 | 9 | 8 |
| Allegan.............. | 24 | 183 | 17 | 164 | 37 | 182 | 10 | 183 | 134 | 150 | 14 | 181 | 181 | 174 |
| Alpena.............. | 5 | 17 | 1 | 13 | 4 | 17 | 1 | 17 | 8 | 10 | 2 | 16 | 17 | 16 |
| Antrim.............. | 11 | 71 | 5 | 43 | 14 | 66 | 6 | 71 | 36 | 32 | 5 | 67 | 69 | 62 |
| Arenac.............. | 12 | 41 | 10 | 32 | 13 | 41 | 4 | 39 | 27 | 32 | 5 | 39 | 40 | 40 |
| Baraga.............. | 3 | 5 | 2 | 5 | 2 | 5 | 2 | 5 | 5 | 5 | 3 | 5 | 5 | 5 |
| Barry.............. | 22 | 142 | 10 | 115 | 22 | 142 | 6 | 140 | 69 | 96 | 6 | 137 | 141 | 132 |
| Bay.............. | 17 | 70 | 5 | 68 | 24 | 68 | 4 | 69 | 28 | 53 | 3 | 69 | 69 | 49 |
| Benzie.............. | 7 | 51 | 6 | 34 | 9 | 50 | 4 | 40 | 27 | 13 | 9 | 47 | 50 | 49 |
| Berrien.............. | 36 | 143 | 22 | 126 | 24 | 142 | 15 | 140 | 133 | 93 | 17 | 139 | 140 | 135 |
| Branch.............. | 13 | 123 | 6 | 88 | 10 | 120 | 5 | 126 | 56 | 76 | 7 | 115 | 120 | 108 |
| Calhoun.............. | 40 | 164 | 15 | 134 | 37 | 162 | 8 | 160 | 108 | 137 | 9 | 157 | 163 | 135 |
| Cass.............. | 21 | 109 | 7 | 78 | 22 | 105 | 8 | 107 | 63 | 81 | 8 | 104 | 108 | 104 |
| Charlevoix.......... | 11 | 62 | 5 | 45 | 13 | 60 | 2 | 59 | 41 | 47 | 4 | 59 | 59 | 58 |
| Cheboygan.......... | 13 | 55 | 8 | 40 | 12 | 54 | 2 | 52 | 51 | 45 | 4 | 54 | 54 | 53 |
| Chippewa.......... | 8 | 54 | 4 | 34 | 14 | 53 | 1 | 50 | 24 | 40 | 3 | 51 | 55 | 48 |
| Clare.............. | 8 | 58 | 5 | 39 | 17 | 56 | 4 | 57 | 33 | 37 | 5 | 55 | 57 | 48 |
| Clinton.............. | 13 | 127 | 8 | 114 | 15 | 127 | 7 | 127 | 62 | 66 | 12 | 126 | 125 | 127 |
| Crawford.......... | 6 | 22 | 2 | 16 | 5 | 21 | 1 | 21 | 10 | 15 | 1 | 21 | 21 | 15 |
| Delta.............. | 6 | 26 | 3 | 15 | 8 | 25 | 2 | 26 | 19 | 22 | 3 | 22 | 26 | 24 |
| Dickinson.......... | 5 | 8 | 2 | 8 | 3 | 8 | 2 | 7 | 6 | 7 | 2 | 8 | 8 | 7 |
| Eaton.............. | 21 | 139 | 12 | 116 | 33 | 139 | 11 | 142 | 91 | 81 | 10 | 138 | 136 | 138 |
| Emmet.............. | 9 | 73 | 6 | 42 | 11 | 68 | 5 | 70 | 33 | 62 | 4 | 73 | 72 | 65 |
| Genesee.............. | 49 | 157 | 16 | 135 | 28 | 155 | 12 | 151 | 115 | 102 | 12 | 156 | 157 | 156 |
| Gladwin.............. | 9 | 48 | 3 | 30 | 9 | 46 | 3 | 47 | 23 | 30 | 4 | 44 | 48 | 42 |
| Gogebic.............. | 4 | 7 | 3 | 6 | 5 | 7 | 4 | 7 | 4 | 5 | 2 | 7 | 7 | 7 |
| Grand Traverse..... | 8 | 66 | 9 | 58 | 20 | 65 | 1 | 63 | 40 | 48 | 6 | 58 | 64 | 59 |
| Gratiot.............. | 25 | 130 | 12 | 115 | 29 | 130 | 6 | 124 | 88 | 83 | 9 | 128 | 130 | 125 |
| Hillsdale.............. | 21 | 159 | 15 | 114 | 21 | 158 | 9 | 158 | 60 | 128 | 12 | 159 | 160 | 153 |
| Houghton.......... | 20 | 35 | 11 | 26 | 19 | 35 | 12 | 35 | 32 | 28 | 11 | 34 | 35 | 34 |
| Huron.............. | 24 | 116 | 17 | 108 | 28 | 12 | 10 | 14 | 62 | 91 | 13 | 114 | 115 | 113 |
| Ingham.............. | 31 | 134 | 13 | 103 | 22 | 103 | 8 | 122 | 82 | 92 | 8 | 130 | 132 | 122 |
| Ionia.............. | 21 | 140 | 11 | 101 | 28 | 138 | 13 | 137 | 56 | 92 | 11 | 132 | 139 | 135 |
| Iosco.............. | 11 | 30 | 8 | 22 | 13 | 29 | 6 | 30 | 13 | 23 | 7 | 29 | 30 | 26 |
| Iron.............. | 4 | 7 | 4 | 6 | 4 | 7 | 4 | 7 | 4 | 6 | 4 | 7 | 7 | 7 |
| Isabella.............. | 12 | 104 | 6 | 95 | 19 | 104 | 2 | 104 | 54 | 69 | 6 | 104 | 105 | 101 |
| Jackson.............. | 36 | 153 | 10 | 124 | 30 | 152 | 17 | 152 | 118 | 132 | 12 | 144 | 150 | 144 |
| Kalamazoo.......... | 44 | 134 | 19 | 110 | 34 | 133 | 11 | 133 | 74 | 97 | 10 | 131 | 135 | 133 |
| Kalkaska.......... | 4 | 50 | 3 | 49 | 6 | 50 | 1 | 50 | 30 | 23 | 3 | 50 | 50 | 50 |
| Kent.............. | 49 | 196 | 26 | 182 | 35 | 195 | 12 | 195 | 187 | 157 | 15 | 190 | 196 | 193 |
| Keweenaw.......... | ...... | 5 | ...... | 4 | 1 | 5 | ...... | 4 | 5 | 5 | ...... | 5 | 5 | 4 |
| Lake.............. | 4 | 35 | 2 | 24 | 7 | 38 | 1 | 36 | 22 | 36 | 1 | 31 | 35 | 31 |
| Lapeer.............. | 22 | 132 | 9 | 118 | 20 | 131 | 10 | 132 | 75 | 104 | 12 | 126 | 125 | 124 |
| Leelanau.......... | 8 | 55 | 7 | 39 | 12 | 53 | 5 | 49 | 31 | 25 | 4 | 51 | 55 | 48 |
| Lenawee.......... | 52 | 190 | 16 | 160 | 43 | 185 | 11 | 190 | 118 | 156 | 14 | 190 | 190 | 190 |
| Livingston.......... | 46 | 131 | 7 | 106 | 35 | 129 | 8 | 128 | 69 | 99 | 7 | 117 | 128 | 122 |
| Luce.............. | 2 | 4 | 1 | 4 | 1 | 4 | 1 | 4 | 4 | 4 | 1 | 3 | 4 | 4 |
| Mackinac.......... | 4 | 13 | 3 | 13 | 8 | 13 | 3 | 13 | 7 | 12 | 2 | 13 | 13 | 13 |
| Macomb.......... | 28 | 110 | 17 | 86 | 19 | 109 | 7 | 106 | 76 | 88 | 10 | 107 | 109 | 106 |

## TABLE X.—CONCLUDED.

| Counties. | Number of districts in which instruction is given in— | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Algebra. | Arithmetic. | Botany. | Civil government. | General history. | Geography. | Geometry. | Grammar. | Orthography. | Penmanship. | Physics. | Physiology. | Reading. | U. S. history. |
| Manistee | 19 | 62 | 8 | 47 | 21 | 63 | 7 | 61 | 40 | 53 | 5 | 63 | 63 | 52 |
| Marquette | 9 | 21 | 5 | 15 | 6 | 21 | 7 | 21 | 17 | 21 | 5 | 21 | 21 | 21 |
| Mason | 7 | 62 | 3 | 48 | 7 | 61 | 2 | 61 | 37 | 38 | 2 | 62 | 63 | 59 |
| Mecosta | 20 | 101 | 14 | 90 | 23 | 103 | 11 | 100 | 68 | 48 | 5 | 102 | 105 | 96 |
| Menominee | 6 | 30 | 5 | 20 | 8 | 30 | 5 | 30 | 16 | 19 | 5 | 28 | 30 | 25 |
| Midland | 13 | 79 | 6 | 63 | 20 | 75 | 3 | 77 | 53 | 56 | 3 | 76 | 76 | 70 |
| Missaukee | 8 | 58 | 2 | 34 | 15 | 56 | 5 | 54 | 30 | 28 | 4 | 56 | 57 | 50 |
| Monroe | 18 | 136 | 5 | 118 | 14 | 126 | 5 | 135 | 103 | 92 | 5 | 136 | 134 | 136 |
| Montcalm | 24 | 139 | 16 | 112 | 30 | 137 | 10 | 131 | 66 | 88 | 17 | 135 | 137 | 134 |
| Montmorency | 3 | 8 | 3 | 8 | 4 | 8 | 1 | 8 | 6 | 7 | 2 | 7 | 8 | 7 |
| Muskegon | 22 | 83 | 11 | 79 | 23 | 83 | 5 | 82 | 66 | 63 | 7 | 84 | 81 | 82 |
| Newaygo | 13 | 118 | 6 | 73 | 15 | 115 | 8 | 115 | 36 | 62 | 4 | 111 | 117 | 112 |
| Oakland | 54 | 194 | 18 | 129 | 43 | 143 | 13 | 180 | 91 | 152 | 13 | 185 | 194 | 183 |
| Oceana | 9 | 88 | 86 | 7 | 20 | 88 | 5 | 86 | 44 | 58 | 3 | 84 | 86 | 81 |
| Ogemaw | 8 | 47 | 5 | 23 | 10 | 44 | 4 | 47 | 17 | 27 | 4 | 40 | 45 | 40 |
| Ontonagon | 7 | 10 | 5 | 8 | 7 | 10 | 5 | 10 | 9 | 9 | 4 | 10 | 10 | 10 |
| Osceola | 7 | 91 | 6 | 74 | 10 | 92 | 7 | 91 | 49 | 66 | 6 | 86 | 90 | 87 |
| Oscoda | 4 | 14 | 1 | 10 | 6 | 13 | 2 | 13 | 10 | 8 | 2 | 12 | 14 | 13 |
| Otsego | 8 | 34 | 3 | 19 | 8 | 35 | 1 | 33 | 22 | 26 | 5 | 28 | 33 | 32 |
| Ottawa | 24 | 120 | 14 | 94 | 32 | 119 | 7 | 118 | 79 | 85 | 12 | 115 | 119 | 114 |
| Presque Isle | 6 | 33 | 6 | 20 | 16 | 32 | 1 | 30 | 18 | 26 | 1 | 32 | 13 | 32 |
| Roscommon | 7 | 17 | 3 | 10 | 5 | 17 | 2 | 17 | 12 | 14 | 3 | 15 | 17 | 14 |
| Saginaw | 37 | 157 | 12 | 137 | 43 | 159 | 11 | 150 | 96 | 119 | 9 | 151 | 156 | 151 |
| St. Clair | 25 | 152 | 10 | 134 | 18 | 152 | 7 | 160 | 148 | 136 | 5 | 162 | 161 | 157 |
| St. Joseph | 18 | 123 | 8 | 82 | 13 | 123 | 8 | 123 | 85 | 116 | 11 | 117 | 121 | 115 |
| Sanilac | 45 | 150 | 13 | 130 | 20 | 150 | 5 | 150 | 138 | 109 | 5 | 147 | 148 | 143 |
| Schoolcraft | 2 | 10 | 2 | 10 | 6 | 11 | 1 | 12 | 6 | 8 | 2 | 10 | 12 | 11 |
| Shiawassee | 19 | 108 | 14 | 91 | 18 | 105 | 12 | 117 | 68 | 68 | 12 | 103 | 106 | 104 |
| Tuscola | 39 | 149 | 32 | 122 | 38 | 144 | 25 | 149 | 88 | 120 | 22 | 139 | 147 | 145 |
| Van Buren | 18 | 152 | 13 | 129 | 23 | 152 | 8 | 151 | 127 | 110 | 15 | 152 | 152 | 149 |
| Washtenaw | 17 | 163 | 12 | 108 | 18 | 160 | 8 | 160 | 75 | 122 | 9 | 153 | 156 | 152 |
| Wayne | 26 | 147 | 13 | 120 | 28 | 146 | 14 | 140 | 75 | 122 | 16 | 146 | 146 | 141 |
| Wexford | 10 | 80 | 4 | 57 | 12 | 82 | 4 | 76 | 53 | 45 | 5 | 77 | 80 | 76 |

## TABLE XI.

*Private or parochial schools for the year ending July 9, 1906.*

| Counties. | Number of private schools. | Number of parochial schools. | Number of teachers. | | Estimated number of pupils. |
|---|---|---|---|---|---|
| | | | Men. | Women. | |
| Totals........... | 84 | 400 | 335 | 899 | 55,385 |
| Alcona.............. | ...... | ...... | ...... | ...... | ........ |
| Alger.............. | ...... | ...... | ...... | ...... | ........ |
| Allegan.............. | ...... | 7 | 3 | 5 | 230 |
| Alpena.............. | ...... | ...... | ...... | ...... | ........ |
| Antrim.............. | ...... | ...... | ...... | ...... | ........ |
| Arenac.............. | ...... | 2 | 1 | 1 | 56 |
| Baraga.............. | ...... | ...... | ...... | ...... | ........ |
| Barry.............. | 1 | 1 | ...... | 3 | 23 |
| Bay.............. | 1 | 32 | 35 | 58 | 5,253 |
| Benzie.............. | 1 | 1 | 1 | 1 | 32 |
| Berrien.............. | 2 | 8 | 15 | 19 | 809 |
| Branch.............. | ...... | 1 | ...... | 3 | 170 |
| Calhoun.............. | ...... | 4 | 3 | 14 | 500 |
| Cass.............. | ...... | 1 | 1 | ...... | 20 |
| Charlevoix.............. | 1 | ...... | 1 | 3 | 50 |
| Cheboygan.............. | 3 | 3 | ...... | 8 | 400 |
| Chippewa.............. | 2 | 2 | ...... | 15 | 500 |
| Clare.............. | ...... | ...... | ...... | ...... | ........ |
| Clinton.............. | ...... | 5 | 2 | 9 | 520 |
| Crawford.............. | ...... | ...... | ...... | ...... | ........ |
| Delta.............. | ...... | 2 | ...... | 13 | 800 |
| Dickinson.............. | ...... | 1 | 1 | 4 | 175 |
| Eaton.............. | ...... | ...... | ...... | ...... | ........ |
| Emmet.............. | 1 | 2 | 1 | 7 | 350 |
| Genesee.............. | 1 | 1 | ...... | 6 | 200 |
| Gladwin.............. | ...... | ...... | ...... | ...... | ........ |
| Gogebic.............. | ...... | 1 | ...... | 12 | 500 |
| Grand Traverse.............. | 1 | 2 | 1 | 8 | 325 |
| Gratiot.............. | 1 | ...... | ...... | ...... | ........ |
| Hillsdale.............. | ...... | 1 | 1 | ...... | 20 |
| Houghton.............. | 2 | 12 | 5 | 39 | 2,508 |
| Huron.............. | 4 | 12 | 11 | 4 | 810 |
| Ingham.............. | 2 | 5 | 2 | 7 | 515 |
| Ionia.............. | 3 | 3 | 1 | 9 | 321 |
| Iosco.............. | ...... | 2 | 2 | 1 | 120 |
| Iron.............. | ...... | ...... | ...... | ...... | ........ |
| Isabella.............. | ...... | 3 | 1 | 10 | 475 |
| Jackson.............. | ...... | 6 | 7 | 21 | 558 |
| Kalamazoo.............. | 2 | 4 | 4 | 18 | 950 |
| Kalkaska.............. | ...... | ...... | ...... | ...... | ........ |
| Kent.............. | 5 | 27 | 19 | 109 | 6,063 |
| Keweenaw.............. | ...... | ...... | ...... | ...... | ........ |
| Lake.............. | ...... | ...... | ...... | ...... | ........ |
| Lapeer.............. | ...... | ...... | ...... | ...... | ........ |
| Leelanau.............. | 1 | 4 | 2 | 6 | 245 |
| Lenawee.............. | ...... | 5 | 6 | 2 | 133 |
| Livingston.............. | ...... | ...... | ...... | ...... | ........ |
| Luce.............. | ...... | ...... | ...... | ...... | ........ |
| Mackinac.............. | 1 | 2 | ...... | 4 | 95 |
| Macomb.............. | 5 | 18 | 12 | 10 | 1,473 |
| Manistee.............. | 1 | 8 | 7 | 20 | 1,520 |
| Marquette.............. | ...... | 3 | ...... | 24 | 1,275 |
| Mason.............. | ...... | 5 | 4 | 8 | 495 |
| Mecosta.............. | 3 | 4 | 2 | 6 | 360 |
| Menominee.............. | ...... | 3 | 3 | 3 | 600 |
| Midland.............. | ...... | 1 | ...... | 1 | 15 |
| Missaukee.............. | 1 | 1 | 1 | 1 | 53 |
| Monroe.............. | 2 | 11 | 9 | 11 | 869 |
| Montcalm.............. | ...... | 4 | 4 | ...... | 113 |
| Montmorency.............. | ...... | 1 | ...... | 1 | 35 |
| Muskegon.............. | 1 | 7 | 5 | 17 | 992 |
| Newaygo.............. | ...... | ...... | ...... | ...... | ........ |
| Oakland.............. | ...... | 3 | 2 | 7 | 192 |
| Oceana.............. | ...... | 2 | 2 | 4 | 306 |
| Ogemaw.............. | 1 | 1 | ...... | 6 | 180 |
| Ontonagon.............. | ...... | ...... | ...... | ...... | ........ |
| Osceola.............. | ...... | 2 | 2 | ...... | 107 |
| Oscoda.............. | ...... | ...... | ...... | ...... | ........ |
| Otsego.............. | ...... | 1 | 1 | 1 | 45 |
| Ottawa.............. | 1 | 7 | 4 | 7 | 280 |
| Presque Isle.............. | 2 | 9 | 6 | 4 | 350 |
| Roscommon.............. | ...... | ...... | ...... | ...... | ........ |
| Saginaw.............. | 9 | 29 | 23 | 20 | 1,557 |
| St. Clair.............. | 3 | 12 | 5 | 35 | 1,141 |
| St. Joseph.............. | ...... | 3 | 3 | ...... | 55 |
| Sanilac.............. | 1 | 2 | 3 | ...... | 55 |
| Schoolcraft.............. | ...... | ...... | ...... | ...... | ........ |
| Shiawassee.............. | ...... | 2 | 1 | 4 | 275 |
| Tuscola.............. | ...... | 10 | 8 | 4 | 445 |
| Van Buren.............. | 1 | 4 | 3 | 2 | 64 |
| Washtenaw.............. | 1 | 13 | 13 | 5 | 538 |
| Wayne.............. | 17 | 71 | 86 | 278 | 18,253 |
| Wexford.............. | ...... | 1 | ...... | 1 | 16 |

# TABLE XII.

*Examination and certification of teachers as reported by the county commissioner for the year ending June 30, 1906.*

| Counties. | Number of public examinations held. | Number of applicants for regular certificates. | Number of applicants for special certificates. | Number of applicants receiving certificates. | | | | | Number licensed without experience in teaching. | Number of applicants having received normal school instruction. | Number of applicants having attended institute during the year. | Number of teachers holding— | | | | | | | | Number of legally qualified teachers in the county including city teachers. | Number of certificates suspended. | Number of certificates annulled. | Number of certificates transferred. | Number of districts hiring teachers by the year. | Number of new teachers added to teaching force during year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | County first grade. | Indorsed first grade. | Second grade. | Third grade. | Special. | | | | State certificates. | State normal college certificates. | Central normal school certificates. | Northern normal school certificates. | Western State normal school certificates. | County normal training class certificates. | Certificates issued by county board of examiners. | Certificates issued by city boards of education. | | | | | | |
| Totals. | 240 | 9,992 | 1,344 | 72 | 50 | 1,860 | 3,603 | 1,133 | 1,827 | 876 | 4,101 | 622 | 948 | 370 | 74 | 20 | 594 | 10,121 | 2,528 | 17,049 | .... | 6 | 373 | 5,680 | 2,358 |
| Alcona | 3 | 45 | 1 | 1 | 1 | 11 | 16 | 1 | 11 | 1 | 28 | 2 | ...... | .... | .... | .... | ...... | 45 | ...... | 38 | .... | .... | 2 | 32 | 10 |
| Alger | 3 | 31 | 2 | .... | .... | 5 | 18 | 2 | 8 | 8 | 6 | ...... | 7 | .... | .... | .... | ...... | 53 | ...... | 60 | .... | .... | .... | 35 | 10 |
| Allegan | 4 | 264 | 17 | 2 | 2 | 25 | 98 | 17 | 47 | 15 | 9 | 6 | 15 | 3 | .... | 2 | ...... | 232 | ...... | 262 | .... | .... | 6 | 150 | 50 |
| Alpena | 3 | 76 | 27 | .... | .... | 12 | 22 | 17 | 12 | 2 | 24 | ...... | ...... | .... | .... | .... | ...... | 57 | 45 | 102 | .... | .... | 2 | ...... | 14 |
| Antrim | 3 | 60 | 10 | .... | .... | 19 | 18 | 6 | 12 | 8 | 24 | 10 | 22 | 8 | 1 | .... | 16 | 91 | ...... | 138 | .... | .... | 15 | 40 | 31 |
| Arenac | 3 | 36 | 3 | 1 | 1 | 6 | 8 | 2 | 3 | 3 | 15 | 4 | 3 | 3 | .... | .... | 35 | 38 | ...... | 75 | .... | .... | 5 | 35 | 15 |
| Baraga | 3 | 35 | 20 | .... | .... | ...... | 13 | 16 | 3 | 4 | 15 | ...... | 2 | .... | 3 | .... | ...... | 24 | ...... | 40 | .... | .... | .... | 5 | 3 |
| Barry | 3 | 162 | 25 | .... | 1 | 29 | 47 | 18 | 29 | 15 | 42 | 5 | 13 | 2 | .... | 1 | 33 | 167 | 4 | 227 | .... | .... | 8 | 116 | 50 |
| Bay | 3 | 137 | 7 | .... | .... | 21 | 27 | 7 | 10 | 13 | 29 | ...... | ...... | 2 | .... | .... | 2 | 74 | 195 | 273 | .... | .... | 2 | 74 | 10 |
| Benzie | 3 | 81 | 13 | 1 | 1 | 17 | 15 | 12 | 5 | 4 | 46 | 1 | 7 | 2 | .... | .... | ...... | 46 | ...... | 103 | .... | 1 | 3 | 8 | 26 |
| Berrien | 3 | 278 | 13 | 3 | .... | 02 | 80 | 13 | 80 | 24 | 325 | 12 | 24 | .... | .... | 2 | ...... | 217 | ...... | 324 | .... | .... | 5 | 60 | 84 |
| Branch | 3 | 157 | 31 | .... | .... | 36 | 48 | 27 | 19 | 15 | 82 | 12 | 24 | 4 | .... | 1 | 1 | 154 | 18 | 214 | .... | .... | 10 | 99 | 19 |
| Calhoun | 3 | 201 | 12 | 3 | 2 | 55 | 95 | 10 | 47 | 16 | 76 | 4 | 8 | 3 | .... | .... | 14 | 263 | 50 | 402 | .... | .... | 5 | 143 | 57 |
| Cass | 3 | 108 | 16 | 1 | 1 | 35 | 30 | 16 | 11 | 12 | 65 | 15 | 8 | 4 | .... | .... | 14 | 66 | 16 | 183 | .... | .... | 2 | 102 | 25 |
| Charlevoix | 3 | 72 | 2 | .... | .... | 20 | 25 | 2 | 4 | 8 | 35 | 2 | 6 | 26 | 1 | .... | 30 | 112 | ...... | 174 | .... | .... | 3 | 40 | 22 |
| Cheboygan | 3 | 127 | 30 | .... | .... | 15 | 33 | 16 | 21 | 4 | 34 | 6 | 4 | 7 | .... | 1 | 1 | 100 | 22 | 103 | .... | 3 | 13 | 65 | 47 |
| Chippewa | 3 | 101 | 7 | .... | 2 | 13 | 45 | 7 | 29 | 11 | 50 | 52 | 22 | 5 | 5 | .... | 2 | 92 | 14 | 162 | .... | 1 | 7 | 84 | 30 |
| Clare | 3 | 94 | 28 | 1 | 1 | 13 | 28 | 19 | 17 | 10 | 38 | 3 | 6 | 2 | .... | .... | ...... | 79 | ...... | 90 | .... | .... | 9 | 22 | 20 |
| Clinton | 3 | 118 | 10 | .... | 1 | 26 | 63 | 10 | 25 | 5 | ...... | 4 | 14 | 12 | .... | .... | 19 | 90 | ...... | 176 | .... | .... | 5 | 75 | 30 |
| Crawford | 3 | 23 | 16 | .... | .... | 5 | 15 | 16 | 15 | 3 | ...... | ...... | ...... | .... | .... | .... | 3 | 24 | ...... | 27 | .... | .... | 2 | 3 | 12 |
| Delta | 3 | 84 | 7 | .... | .... | 10 | 25 | 6 | 15 | 12 | 27 | ...... | 38 | .... | .... | .... | ...... | 75 | 27 | 140 | .... | .... | 3 | 47 | 18 |
| Dickinson | 2 | 14 | 5 | .... | .... | 10 | 5 | 5 | 2 | 18 | 20 | 2 | 4 | 1 | 10 | .... | ...... | 12 | 59 | 130 | .... | .... | .... | 6 | 3 |
| Eaton | 3 | 204 | 22 | .... | 1 | 24 | 85 | 22 | 45 | 10 | 73 | 1 | 47 | 14 | .... | .... | 2 | 175 | 11 | 250 | .... | .... | .... | 100 | e 10 |
| Emmet | 3 | 116 | 21 | .... | .... | 9 | 24 | 19 | 16 | 4 | 18 | 8 | 6 | 5 | .... | .... | 3 | 98 | 25 | 146 | .... | .... | 5 | 48 | 42 |
| Genesee | 3 | 234 | 50 | 6 | 1 | 45 | 94 | 45 | 43 | 20 | 200 | ...... | 20 | 5 | .... | .... | ...... | 200 | e 50 | 276 | .... | .... | 3 | 130 | 40 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gladwin | 3 | 84 | 8 | 1 | 1 | 12 | 31 | 7 | 20 | .... | 28 | 2 | 2 | 1 | .... | .... | .... | 58 | .... | 63 | .... | .... | 4 | e 35 | e 8 |
| Gogebic | 2 | 41 | .... | .... | .... | 3 | 26 | .... | 11 | 5 | 20 | .... | 10 | 6 | 6 | .... | .... | 35 | 85 | 142 | .... | .... | .... | 7 | 60 |
| Grand Traverse | 3 | 80 | 6 | 1 | .... | 20 | 38 | 6 | 23 | 3 | 24 | 2 | 2 | 2 | .... | .... | .... | 88 | .... | e 141 | .... | .... | 4 | e 50 | e 25 |
| Gratiot | 3 | 154 | e 15 | 1 | 1 | 29 | 35 | 8 | 8 | 7 | e 60 | 14 | 18 | 30 | .... | .... | 37 | 192 | 11 | 302 | .... | .... | 3 | 100 | 60 |
| Hillsdale | 3 | 241 | 65 | .... | .... | 45 | 73 | 55 | 49 | 5 | 87 | 31 | 21 | 1 | .... | .... | .... | 259 | 10 | 300 | .... | .... | 6 | 110 | 50 |
| Houghton | 2 | 164 | 58 | 5 | .... | 61 | 57 | 58 | 27 | 28 | 54 | 90 | 4 | 10 | .... | .... | .... | 262 | .... | 440 | .... | .... | 2 | 28 | 25 |
| Huron | 2 | 160 | 14 | .... | .... | 20 | 60 | 14 | 37 | 15 | 43 | 4 | 22 | 12 | .... | 1 | .... | 151 | .... | 216 | .... | .... | 2 | 117 | 38 |
| Ingham | 3 | 133 | 39 | 2 | 2 | 25 | 46 | 26 | 14 | 22 | 72 | 9 | 6 | 3 | .... | .... | 23 | 155 | 100 | 287 | .... | 1 | 5 | 60 | 45 |
| Ionia | 3 | 196 | 24 | 1 | .... | 55 | 73 | 20 | 48 | 11 | 70 | 1 | 8 | 7 | .... | .... | 20 | 200 | 53 | 289 | .... | .... | 7 | 80 | 50 |
| Iosco | 3 | 49 | 3 | .... | 1 | 8 | 19 | 3 | 7 | 5 | 26 | 6 | 4 | 1 | .... | .... | 16 | 55 | .... | 78 | .... | .... | 2 | 26 | 21 |
| Iron | 3 | 33 | 5 | .... | .... | 4 | 18 | 4 | 8 | 4 | 16 | 30 | 13 | 6 | 4 | .... | .... | 40 | .... | 75 | .... | .... | 3 | 7 | 30 |
| Isabella | 3 | 142 | 10 | 1 | .... | 18 | 37 | 8 | 13 | 34 | 43 | 2 | 2 | 48 | .... | .... | .... | 87 | 3 | 126 | .... | .... | 2 | 72 | 25 |
| Jackson | 3 | 328 | 14 | 1 | 1 | 52 | 92 | 12 | 53 | 22 | 115 | 2 | 18 | .... | .... | .... | .... | 158 | 97 | 293 | .... | .... | 4 | 85 | 40 |
| Kalamazoo | 3 | 191 | 12 | .... | .... | 24 | 73 | 10 | 28 | 20 | 63 | 2 | 18 | 1 | 1 | 6 | .... | 209 | 92 | 362 | .... | .... | 11 | 108 | 35 |
| Kalkaska | 2 | 39 | 21 | .... | .... | 1 | 5 | 11 | 5 | .... | .... | 16 | 3 | 7 | .... | .... | 14 | 24 | .... | 71 | .... | .... | 3 | e 35 | e 15 |
| Kent | 3 | 186 | 7 | 5 | 3 | 46 | 118 | 7 | 62 | 6 | 60 | 9 | 11 | .... | .... | .... | .... | 391 | 425 | 810 | .... | .... | 2 | e 175 | 34 |
| Keweenaw | 3 | 14 | 4 | .... | .... | 3 | 4 | 4 | 1 | 1 | 11 | 2 | 3 | .... | 1 | .... | .... | 11 | .... | 23 | .... | .... | .... | 52 | 2 |
| Lake | 3 | 49 | 11 | .... | .... | 6 | 23 | 11 | 16 | .... | 25 | 4 | 1 | .... | .... | .... | .... | 56 | .... | 59 | .... | .... | 4 | 11 | 20 |
| Lapeer | 2 | 130 | 3 | .... | .... | 45 | 51 | 3 | 33 | .... | 87 | 2 | 13 | .... | .... | .... | .... | 191 | 19 | 210 | .... | .... | 11 | 129 | e 60 |
| Leelanau | 3 | 49 | 7 | .... | .... | 15 | 28 | 4 | 14 | 15 | 31 | 5 | 2 | 3 | .... | .... | .... | 61 | .... | 73 | .... | .... | .... | .... | 15 |
| Lenawee | 3 | 236 | 32 | .... | .... | 48 | 95 | 31 | 53 | 15 | 115 | 24 | 27 | 2 | .... | .... | 1 | 242 | 40 | 336 | .... | .... | 6 | 158 | 58 |
| Livingston | 3 | 176 | 34 | 1 | 1 | 27 | 95 | 34 | 36 | 30 | 70 | 3 | 41 | 1 | .... | .... | .... | 257 | .... | 308 | .... | .... | 7 | 63 | .... |
| Luce | 3 | 24 | 2 | .... | .... | .... | .... | 1 | .... | .... | .... | .... | 8 | .... | 1 | .... | .... | 16 | .... | 26 | .... | .... | 3 | 4 | .... |
| Mackinac | 3 | 32 | 21 | .... | .... | 6 | 7 | 21 | 5 | 3 | 9 | 3 | 4 | 2 | 1 | .... | .... | 65 | .... | 90 | .... | .... | 15 | 11 | 26 |
| Macomb | 3 | 108 | 5 | 1 | 1 | 17 | 22 | 5 | 11 | 4 | 39 | 2 | 18 | 1 | .... | .... | 17 | 195 | 24 | 219 | .... | .... | 4 | 113 | 28 |
| Manistee | 2 | 65 | 13 | .... | .... | 17 | 25 | 10 | 9 | .... | 32 | 10 | 6 | 2 | 5 | .... | 16 | 101 | 60 | 204 | .... | .... | .... | e 55 | 17 |
| Marquette | 2 | 54 | 12 | 1 | 1 | 9 | 29 | 12 | 12 | 35 | 23 | 18 | 27 | .... | 28 | .... | .... | 57 | 87 | 229 | .... | .... | .... | 48 | 10 |
| Mason | 3 | 65 | 2 | 1 | 1 | 17 | 31 | 2 | 11 | 5 | 45 | 9 | 1 | 6 | .... | .... | 26 | 77 | 40 | 150 | .... | .... | 2 | e 60 | e 25 |
| Mecosta | 3 | 236 | 6 | 2 | 2 | 32 | 50 | 6 | 25 | .... | 45 | 2 | 2 | 3 | .... | .... | 35 | 82 | 28 | 148 | .... | .... | 3 | e 50 | e 40 |
| Menominee | 3 | 137 | 11 | 2 | 2 | 18 | 60 | 11 | 26 | 9 | 56 | 8 | .... | 1 | 2 | .... | .... | 124 | 60 | 195 | .... | .... | 1 | 80 | 14 |
| Midland | 3 | 95 | e 15 | 1 | 1 | 14 | 25 | 9 | 5 | e 12 | 57 | 16 | 3 | 10 | .... | .... | 21 | 77 | 5 | 119 | .... | .... | 6 | e 60 | e 25 |
| Missaukee | 2 | 67 | 18 | .... | .... | 11 | 38 | 12 | 17 | e 7 | e 40 | 7 | 4 | 1 | .... | .... | 1 | 74 | .... | 88 | .... | .... | 3 | e 42 | e 17 |
| Monroe | 3 | 125 | 25 | .... | .... | 25 | 47 | 18 | 15 | 15 | 65 | 1 | 8 | .... | .... | .... | .... | 173 | 15 | 201 | .... | .... | 2 | 125 | 30 |
| Montcalm | 3 | 241 | 24 | .... | .... | 39 | 105 | 21 | 45 | 35 | 85 | 2 | 7 | 10 | .... | .... | 2 | 156 | 25 | 202 | .... | .... | 7 | e 40 | e 35 |
| Montmorency | 3 | 40 | 4 | .... | .... | 3 | 20 | 4 | 10 | .... | 27 | 4 | .... | .... | .... | .... | .... | 34 | .... | 34 | .... | .... | .... | 25 | e 10 |
| Muskegon | 3 | 138 | 11 | .... | .... | 20 | 63 | 8 | 30 | 8 | 48 | 10 | 15 | .... | .... | .... | .... | 155 | 150 | 305 | .... | .... | 12 | e 60 | 40 |
| Newaygo | 3 | 110 | 25 | 1 | .... | 36 | 65 | 21 | 24 | 8 | 46 | 2 | 5 | 1 | .... | .... | 4 | 178 | .... | 207 | .... | .... | 9 | 74 | 30 |
| Oakland | 3 | 175 | 29 | 1 | 1 | 41 | 67 | 19 | 30 | 15 | 75 | 6 | 31 | 11 | .... | .... | 40 | 215 | 12 | 364 | .... | .... | 18 | 195 | 32 |
| Oceana | 3 | 127 | 16 | 2 | 2 | 23 | 56 | 16 | 26 | e 5 | 40 | 30 | e 19 | 3 | .... | .... | 19 | e 200 | .... | e 225 | .... | .... | 4 | e 85 | e 25 |
| Ogemaw | 3 | 79 | 1 | .... | .... | 9 | 20 | 1 | 9 | 3 | 18 | 4 | .... | .... | .... | .... | 2 | 58 | .... | 62 | .... | .... | 5 | 25 | 9 |
| Ontonagon | 3 | 46 | 18 | 2 | 1 | 7 | 20 | 14 | 7 | 28 | 8 | 2 | 8 | .... | 3 | .... | .... | 49 | .... | 83 | .... | .... | 2 | 78 | 10 |
| Osceola | 2 | 122 | 12 | 2 | 2 | 25 | 45 | 12 | 20 | 11 | 31 | 6 | 9 | 15 | .... | .... | 23 | 144 | .... | 197 | .... | .... | 3 | 74 | 40 |
| Oscoda | 3 | 28 | 5 | 1 | .... | 23 | .... | 5 | 10 | 14 | 6 | .... | .... | .... | .... | .... | 1 | 31 | .... | 31 | .... | .... | 4 | 15 | .... |
| Otsego | 3 | 27 | 4 | .... | .... | 6 | 5 | 4 | 1 | 3 | 6 | 1 | 5 | 6 | .... | .... | 8 | 30 | .... | 60 | .... | .... | 4 | 23 | 18 |
| Ottawa | 3 | 160 | 8 | 3 | 1 | 45 | 85 | 6 | 46 | 12 | 92 | 8 | 19 | 4 | .... | 1 | .... | 210 | 32 | 270 | .... | .... | 12 | e 120 | 40 |

## TABLE XII.—CONCLUDED.

| Counties. | Number of public examinations held. | Number of applicants for regular certificates. | Number of applicants for special certificates. | Number of applicants receiving certificates. | | | | | Number licensed without experience in teaching. | Number of applicants having received normal school instruction. | Number of applicants having attended institute during the year. | Number of teachers holding— | | | | | | | | Number of legally qualified teachers in the county including city teachers. | Number of certificates suspended. | Number of certificates annulled. | Number of certificates transferred. | Number of districts hiring teachers by the year. | Number of new teachers added to teaching force during year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | County first grade. | Indorsed first grade. | Second grade. | Third grade. | Special. | | | | State certificates. | State normal college certificates. | Central normal school certificates. | Northern normal school certificates. | Western State normal school certificates. | County normal training class certificates. | Certificates issued by county board of examiners. | Certificates issued by city boards of education. | | | | | | |
| Preque Isle | 3 | 40 | 25 | .... | .... | 12 | 13 | 18 | 5 | 4 | 25 | 3 | 1 | 2 | .... | .... | ...... | 40 | ...... | 51 | .... | .... | .... | 3 | 6 |
| Roscommon | 3 | 18 | 3 | .... | .... | 2 | 6 | 3 | 3 | ...... | 5 | 1 | ...... | 1 | .... | .... | 1 | 13 | ...... | 16 | .... | .... | .... | ...... | 5 |
| Saginaw | 3 | 275 | 25 | 3 | 3 | 16 | 74 | 14 | 43 | 28 | 87 | ...... | 34 | 11 | .... | .... | 5 | 261 | e 275 | 536 | .... | .... | 8 | e 125 | e 50 |
| St. Clair | 3 | 175 | 18 | .... | .... | 36 | 74 | 13 | 26 | 7 | 65 | ...... | 26 | 2 | .... | .... | 45 | 158 | 62 | 245 | .... | .... | 2 | 140 | e 45 |
| St. Joseph | 3 | 215 | 42 | 5 | ... | 31 | 81 | 35 | 68 | 11 | 76 | 2 | 16 | .... | .... | .... | ...... | 181 | 27 | 226 | .... | .... | 3 | 110 | 71 |
| Sanilac | 3 | 254 | 23 | .... | 2 | 41 | 94 | 23 | 53 | 12 | 147 | 21 | 14 | 2 | .... | .... | ...... | 219 | ...... | 240 | .... | .... | 5 | 153 | 53 |
| Schoolcraft | 3 | 24 | 3 | .... | .... | 10 | 8 | 2 | 4 | 16 | 18 | 1 | 2 | .... | 2 | .... | ...... | 20 | ...... | 62 | .... | .... | 5 | 28 | 20 |
| Shiawassee | 3 | 144 | 30 | 1 | 1 | 24 | 41 | 23 | 12 | 11 | 89 | 5 | 16 | 5 | .... | .... | 9 | 70 | 15 | 296 | .... | .... | 5 | 95 | 50 |
| Tuscola | 3 | 224 | 36 | 3 | 1 | 48 | 56 | 36 | 32 | 12 | 75 | 16 | 5 | 2 | .... | .... | 1 | 209 | ...... | 225 | .... | .... | 3 | 80 | e 35 |
| Van Buren | 3 | 151 | 12 | .... | 1 | 31 | 59 | 11 | 33 | 14 | 87 | 3 | 12 | 4 | .... | 5 | ...... | 204 | 23 | 251 | .... | .... | 5 | 144 | e 40 |
| Washtenaw | 3 | 130 | 12 | 1 | .... | 24 | 59 | 12 | 26 | 21 | 38 | ...... | 10 | .... | .... | .... | ...... | 217 | 75 | 394 | .... | .... | 8 | 80 | 26 |
| Wayne | 3 | 184 | 23 | 1 | .... | 45 | 51 | 23 | 17 | 14 | 50 | 10 | 61 | 3 | .... | .... | ...... | 195 | ...... | 1,325 | .... | .... | 3 | 152 | 25 |
| Wexford | 3 | 124 | 18 | .... | 2 | 7 | 28 | 15 | 16 | 1 | 45 | ...... | 3 | 13 | .... | .... | 32 | 67 | 42 | 148 | .... | .... | 4 | 81 | 22 |

e Estimated.

## TABLE XIII.

*Miscellaneous statistics as reported by the county commissioner of schools for the year ending June 30, 1906.*

| Counties. | Number of meetings of county teachers' associations. | Number of other teachers' meetings. | Number of days devoted to meetings of county board. | Amount allowed by board of supervisors for stationery, etc. | Amount of compensation received by members of the board other than the commissioner. | Salary of the commissioner. | Amount of institute fees collected. | Number of districts visited by the commissioner during the year. | Number of visits made by commissioner and assistant during the year. | Number of districts in which the compulsory attendance law is enforced. |
|---|---|---|---|---|---|---|---|---|---|---|
| Totals...... | 152 | 615 | 628 | $14,155 69 | $19,826 40 | $83,920 00 | $10,571 00 | 7,446 | 12,760 | 7,109 |
| Alcona.......... | 3 | 3 | 13 | $25 00 | $104 00 | $300 00 | ........... | 36 | 39 | 34 |
| Alger.......... | 1 | ...... | 6 | 150 00 | 100 00 | 600 00 | $25 50 | 50 | 60 | 53 |
| Allegan.......... | 4 | 4 | 6 | 250 00 | 541 50 | 1,350 00 | 232 00 | 184 | 217 | 180 |
| Alpena.......... | ...... | ...... | 32 | 200 00 | 256 00 | 700 00 | 46 00 | 46 | 46 | 46 |
| Antrim.......... | 2 | 2 | 9 | 225 00 | 120 00 | 1,000 00 | 65 00 | 72 | 150 | 72 |
| Arenac.......... | 3 | 40 | 14 | 20 00 | 112 00 | 500 00 | 70 50 | 41 | 173 | 41 |
| Baraga.......... | ...... | ...... | 4 | ........... | 112 00 | 650 00 | 33 00 | 33 | 45 | 5 |
| Barry.......... | 2 | 35 | 9 | 120 73 | 216 00 | 1,200 00 | 151 00 | 138 | 197 | 143 |
| Bay.......... | 3 | ...... | 7 | ........... | 336 00 | 1,200 00 | 191 50 | 74 | 175 | 74 |
| Benzie.......... | 2 | 3 | 11 | 214 30 | 182 00 | 500 00 | 77 00 | 52 | 83 | 51 |
| Berrien.......... | 1 | 4 | 12 | 232 00 | 480 00 | 1,200 00 | 283 50 | 143 | 180 | 143 |
| Branch.......... | 3 | 8 | 3 | 93 00 | 159 50 | 1,500 00 | 147 00 | 126 | 267 | 126 |
| Calhoun.......... | 3 | 50 | 10 | 300 00 | 350 00 | 1,500 00 | 216 00 | 164 | 243 | 164 |
| Cass.......... | 2 | 2 | 3 | 172 79 | 328 50 | 1,200 00 | 131 50 | 112 | 120 | 112 |
| Charlevoix...... | 3 | ...... | 3 | 200 00 | 250 00 | 1,200 00 | 97 50 | 66 | 200 | 66 |
| Cheboygan...... | 2 | ...... | 13 | 333 75 | 246 00 | 1,000 00 | 94 00 | 70 | 150 | 69 |
| Chippewa........ | ...... | ...... | 12 | 400 00 | 276 00 | 1,200 00 | 86 00 | 77 | ........ | 35 |
| Clare.......... | 1 | 2 | 4 | e 140 00 | e 160 00 | 500 00 | 65 00 | 59 | 82 | 60 |
| Clinton.......... | 5 | ...... | 3 | 200 00 | 308 00 | 1,350 00 | 121 00 | 129 | 225 | 129 |
| Crawford........ | ...... | 8 | 4 | 24 00 | 84 00 | 300 00 | 37 00 | 16 | 30 | 16 |
| Delta.......... | ...... | ...... | 8 | 115 00 | 160 00 | 1,200 00 | 75 50 | 60 | 140 | 55 |
| Dickinson....... | 1 | ...... | 8 | 200 00 | 38 00 | 1,200 00 | 68 50 | 6 | 220 | 6 |
| Eaton.......... | 2 | ...... | 3 | 418 52 | 372 00 | 1,500 00 | 116 00 | 137 | 310 | 137 |
| Emmet.......... | 1 | 1 | 9 | ........... | ........... | 1,000 00 | 94 00 | 73 | 125 | 73 |
| Genesee......... | 6 | 50 | 6 | 200 00 | 575 00 | 1,200 00 | 267 50 | 140 | 175 | 140 |
| Gladwin......... | 1 | 1 | 3 | 261 33 | 204 00 | 500 00 | 72 00 | 47 | 60 | 49 |
| Gogebic.......... | ...... | 40 | 8 | 50 00 | 64 00 | 600 00 | 82 50 | 7 | 130 | 7 |
| Grand Traverse.. | 1 | 20 | 4 | e 125 00 | 260 00 | 1,200 00 | 88 00 | 67 | 135 | 67 |
| Gratiot.......... | 2 | ...... | 3 | e 300 00 | 250 00 | 1,200 00 | 147 00 | 133 | 251 | 133 |
| Hillsdale......... | 3 | 10 | 3 | 225 00 | 256 00 | 1,200 00 | 264 00 | 162 | 193 | 163 |
| Houghton....... | ...... | ...... | 3 | 85 00 | 80 00 | 1,100 00 | 264 50 | 26 | 40 | 28 |
| Huron.......... | 7 | ...... | 3 | 210 50 | 272 00 | 1,200 00 | 139 00 | 117 | 128 | 112 |
| Ingham.......... | 1 | 3 | 33 | 176 47 | 262 00 | 1,350 00 | 174 00 | 136 | 212 | 136 |
| Ionia.......... | 2 | 5 | 4 | 225 00 | 304 00 | 1,200 00 | 230 00 | 141 | 250 | 135 |
| Iosco.......... | 3 | 4 | 10 | ........... | 160 00 | 500 00 | ........... | 26 | 62 | 26 |
| Iron.......... | ...... | 1 | 3 | 100 00 | 64 00 | 600 00 | 33 50 | 24 | 28 | † 4 |
| Isabella.......... | 2 | ...... | 4 | 200 00 | 276 00 | 1,400 00 | 117 50 | 103 | 168 | 89 |
| Jackson.......... | 2 | 3 | 3 | 290 00 | 370 00 | 1,500 00 | 212 00 | 156 | 326 | 48 |
| Kalamazoo...... | 2 | 12 | 6 | 200 00 | 354 00 | 1,350 00 | 187 00 | 136 | 239 | 136 |
| Kalkaska........ | 1 | e 20 | 2 | 200 00 | e 60 00 | 750 00 | 47 00 | 51 | 123 | 51 |
| Kent.......... | 5 | 5 | 52 | 359 50 | 1,096 00 | 1,500 00 | 526 00 | 155 | 156 | 155 |
| Keweenaw...... | ...... | ...... | 18 | 50 00 | 72 00 | 250 00 | 12 00 | † 5 | 14 | 52 |
| Lake.......... | ...... | 4 | 18 | 78 00 | 72 00 | 520 00 | 35 00 | 45 | 140 | 45 |
| Lapeer.......... | 2 | 50 | 8 | 233 00 | 306 00 | 1,200 00 | 107 50 | 135 | 142 | 135 |
| Leelanau........ | 5 | 4 | 3 | ........... | 160 00 | 800 00 | 33 00 | 58 | 115 | 58 |
| Lenawee......... | 1 | 64 | 5 | 348 71 | 340 00 | 1,500 00 | 231 50 | 153 | 165 | 196 |
| Livingston...... | 2 | 2 | 9 | 167 41 | 316 00 | 1,200 00 | 168 50 | 133 | 191 | 135 |
| Luce.......... | ...... | ...... | 3 | ........... | 48 00 | 200 00 | 8 50 | † 3 | 20 | † 4 |
| Mackinac........ | ..... | 1 | 10 | e 120 00 | 190 00 | 600 00 | 41 50 | 13 | 19 | 3 |
| Macomb........ | 1 | 13 | 8 | ........... | 296 00 | 1,600 00 | 110 00 | 113 | 195 | 113 |

## TABLE XIII.—Concluded.

| Counties. | Number of meetings of county teachers' associations. | Number of other teachers' meetings. | Number of days devoted to meetings of county board. | Amount allowed by board of supervisors for stationery, etc. | Amount of compensation received by members of the board other than the commissioner. | Salary of the commissioner. | Amount of institute fees collected. | Number of districts visited by the commissioner during the year. | Number of visits made by commissioner and assistant during the year. | Number of districts in which the compulsory attendance law is enforced. |
|---|---|---|---|---|---|---|---|---|---|---|
| Manistee | 2 | 6 | 5 | $200 00 | $264 00 | $850 00 | $128 50 | 69 | 182 | 69 |
| Marquette | ...... | 4 | 3 | 491 81 | 56 00 | 1,500 00 | 154 50 | 48 | 191 | 48 |
| Mason | 1 | 24 | 11 | 210 00 | 205 00 | 850 00 | 117 00 | 66 | 154 | 66 |
| Mecosta | ...... | 2 | 3 | 200 00 | 288 00 | 1,000 00 | 184 50 | 107 | 148 | 107 |
| Menominee | ...... | 3 | 10 | 150 00 | 68 00 | 1,500 00 | 123 50 | 80 | 200 | 80 |
| Midland | 1 | 2 | 3 | 170 00 | 135 00 | 1,000 00 | 58 50 | 79 | 127 | 79 |
| Missaukee | 2 | 7 | 16 | 26 00 | 128 00 | † 800 00 | 57 00 | 60 | 90 | 60 |
| Monroe | 2 | 10 | 36 | 300 00 | 288 00 | 1,200 00 | ............ | 136 | 175 | 136 |
| Montcalm | 1 | ...... | 9 | 200 00 | 408 00 | 1,400 00 | 162 00 | 140 | 175 | 130 |
| Montmorency | 2 | ...... | 8 | 25 00 | 120 00 | 300 00 | 28 50 | 33 | 60 | ........ |
| Muskegon | 3 | 3 | 3 | 125 00 | 400 00 | 1,200 00 | 160 00 | 95 | 327 | 95 |
| Newaygo | 2 | 3 | 13 | 253 91 | 397 00 | 1,200 00 | 98 00 | 115 | 213 | 115 |
| Oakland | 1 | ...... | 7 | 200 00 | 320 00 | 1,400 00 | 190 00 | 200 | 250 | 201 |
| Oceana | 3 | 8 | 10 | 121 36 | 275 50 | 1,000 00 | 130 50 | 89 | 377 | 89 |
| Ogemaw | 1 | 1 | 3 | ............ | 112 00 | 500 00 | 43 50 | 44 | 86 | 44 |
| Ontonagon | 2 | ...... | 6 | 40 00 | 120 00 | 500 00 | 56 00 | 78 | 143 | 78 |
| Osceola | ...... | 1 | 2 | ............ | ............ | 1,200 00 | ............ | 93 | 147 | 91 |
| Oscoda | 3 | 4 | 12 | 29 00 | 72 00 | 250 00 | 1 00 | 25 | 27 | 25 |
| Otsego | 2 | 12 | 3 | 150 00 | 120 00 | 600 00 | 36 00 | 35 | 100 | 37 |
| Ottawa | 8 | ...... | 3 | ............ | ............ | 1,200 00 | 166 00 | 123 | 141 | 123 |
| Presque Isle | 4 | ...... | 12 | 172 66 | 125 40 | 500 00 | 49 00 | 35 | 42 | 35 |
| Roscommon | ...... | ...... | 9 | 10 00 | 72 00 | 200 00 | 16 50 | 13 | 20 | 10 |
| Saginaw | 3 | ...... | 18 | e 600 00 | 600 00 | 1,500 00 | 260 00 | 165 | e 400 | 165 |
| St. Clair | 1 | ...... | 4 | e 600 00 | 272 00 | 1,500 00 | 260 50 | 152 | 186 | 152 |
| St. Joseph | 1 | ...... | 3 | 218 60 | 187 00 | 1,200 00 | 143 50 | 123 | 213 | 123 |
| Sanilac | ...... | 20 | 21 | ............ | 675 00 | 1,500 00 | 226 00 | 153 | 242 | 153 |
| Schoolcraft | 2 | 4 | 9 | 100 00 | 72 00 | 500 00 | 29 50 | 28 | 79 | 28 |
| Shiawassee | 4 | 10 | 3 | ............ | 400 00 | 1,200 00 | 133 00 | 122 | 152 | 122 |
| Tuscola | 1 | ...... | 3 | 252 00 | 250 00 | 1,500 00 | 165 00 | 148 | 160 | 149 |
| Van Buren | 1 | 12 | 4 | 171 86 | 244 00 | 1,400 00 | 138 00 | 152 | 243 | 152 |
| Washtenaw | 1 | 2 | 12 | ............ | 328 00 | 1,500 00 | 209 50 | 158 | 213 | 158 |
| Wayne | 3 | 1 | 20 | 614 48 | 536 00 | 2,000 00 | 824 50 | 152 | 296 | ........ |
| Wexford | 2 | 2 | 6 | 285 00 | 300 00 | 1,000 00 | 98 00 | 81 | 158 | 81 |

† Townships.
e Estimated.

# TABLE XIV.

*Condition of schools and schoolhouses as reported by the county commissioner of schools for the year ending June 30, 1906.*

| Counties. | Number of schools supplied with dictionaries. | Number of schools supplied with maps. | Number of schools supplied with globes. | Number of schoolhouses properly heated and ventilated. | Number of schools having uniform text-books in each branch. | Number of schools having a prescribed course of study. | Number of schools properly classified. | Number of schools in which physiology, etc., is taught. | Number of districts that have adopted text-books in physiology. | Number of districts that have taught communicable diseases according to law. | Number of townships organized as township districts. | Number of districts furnishing free text-books. | Number of pupils in 8th grade exclusive of graded schools. | Number of 8th grade diplomas granted. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Totals........ | 7,178 | 6,885 | 6,310 | 3,192 | 6,256 | 3,935 | 6,262 | 7,602 | 6,752 | 6,389 | 138 | 966 | 13,275 | 5,209 |
| Alcona............ | 34 | 32 | 32 | ...... | 36 | 3 | 36 | 32 | 36 | 36 | 3 | 9 | 70 | 10 |
| Alger............ | 53 | 35 | 30 | 20 | 53 | 20 | 35 | 53 | 53 | 53 | 5 | 53 | 20 | 36 |
| Allegan............ | 184 | 173 | 161 | 170 | 184 | 9 | 150 | 184 | 184 | e 150 | ...... | 7 | 400 | 113 |
| Alpena............ | 60 | 60 | 50 | ...... | 40 | ...... | 18 | 15 | ...... | 15 | 5 | ...... | 40 | ...... |
| Antrim............ | 72 | 72 | 70 | 72 | 65 | 25 | 50 | 72 | 72 | 72 | ...... | 18 | 39 | 21 |
| Arenac............ | 40 | 37 | 34 | 5 | 35 | 30 | 35 | 41 | 41 | 36 | ...... | 15 | 110 | 51 |
| Baraga............ | 25 | 25 | 25 | 18 | 25 | 25 | 18 | 25 | 5 | 5 | 5 | 5 | 10 | 4 |
| Barry............ | 125 | 125 | 98 | 105 | 130 | 143 | 125 | 143 | 143 | 143 | ...... | 4 | e 350 | 86 |
| Bay............ | 60 | 70 | 70 | 40 | 72 | 2 | 74 | 74 | 74 | 74 | 1 | ...... | ...... | 145 |
| Benzie............ | 52 | 52 | 52 | 12 | 52 | 6 | 45 | 52 | 52 | 52 | ...... | 6 | 60 | 2 |
| Berrien............ | 164 | e 130 | e 124 | 14 | 140 | e 143 | e 100 | 143 | ...... | ...... | ...... | 5 | 400 | 136 |
| Branch............ | 93 | 78 | 68 | e 25 | 115 | 10 | e 95 | e 115 | 126 | e 70 | ...... | 2 | e 140 | 49 |
| Calhoun............ | 162 | 156 | 148 | e 100 | 140 | 12 | 130 | 164 | 164 | 164 | ...... | 8 | 225 | 143 |
| Cass............ | 102 | 95 | 96 | 89 | 90 | 104 | 110 | 112 | 112 | 112 | ...... | ...... | 260 | 47 |
| Charlevoix............ | 66 | 66 | 67 | 15 | 60 | 5 | 35 | 67 | 60 | 50 | ...... | 26 | e 60 | 14 |
| Cheboygan............ | 65 | 65 | 55 | 10 | 55 | e 12 | 60 | 70 | 69 | 56 | 3 | 41 | 102 | 38 |
| Chippewa............ | 70 | 70 | 65 | 35 | 80 | 40 | 75 | 84 | 84 | 84 | 8 | 23 | 45 | 42 |
| Clare............ | 48 | 50 | 37 | ...... | 3 | 3 | ...... | 62 | ...... | e 5 | ...... | 23 | 135 | 30 |
| Clinton............ | 129 | 129 | 75 | e 50 | 75 | e 129 | 129 | 129 | 129 | 129 | ...... | 3 | 275 | 77 |
| Crawford............ | 20 | 24 | 24 | 24 | 24 | 1 | 15 | 24 | 24 | 24 | ...... | ...... | 14 | 6 |
| Delta............ | 45 | 48 | 42 | 52 | 54 | 2 | 57 | 60 | 60 | 60 | 8 | 8 | 85 | 16 |
| Dickinson............ | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 40 | 21 |
| Eaton............ | 99 | 100 | 100 | e 25 | 137 | 137 | 137 | 137 | 137 | 137 | ...... | 3 | 165 | 104 |
| Emmet............ | 73 | 60 | 50 | ...... | ...... | 5 | ...... | 73 | ...... | ...... | ...... | ...... | 50 | 43 |
| Genesee............ | 157 | 157 | 120 | 80 | 140 | e 20 | 140 | 150 | e 150 | 150 | ...... | 2 | 137 | 215 |
| Gladwin............ | e 42 | e 40 | e 40 | e 30 | e 45 | 4 | e 40 | e 45 | e 45 | e 25 | 2 | 10 | 80 | 46 |
| Gogebic............ | 27 | 27 | 27 | 20 | 27 | 27 | 27 | 27 | 27 | 27 | 5 | 5 | 19 | 18 |
| Grand Traverse..... | 59 | 55 | 50 | 10 | 65 | 6 | 67 | 67 | ...... | 40 | ...... | 11 | 120 | 33 |
| Gratiot............ | 130 | 120 | 110 | 5 | e 125 | e 125 | e 125 | 133 | 133 | 133 | ...... | 4 | e 350 | 157 |
| Hillsdale............ | 154 | 156 | 117 | 100 | 115 | e 100 | 153 | 163 | 163 | 163 | ...... | ...... | 260 | 94 |
| Houghton............ | 29 | 29 | 35 | 35 | 25 | 9 | 30 | 26 | 20 | 30 | 4 | 10 | 13 | 13 |
| Huron............ | 107 | 105 | 106 | 45 | 117 | 117 | 117 | 117 | 117 | 117 | ...... | 21 | 260 | 35 |
| Ingham............ | 134 | 117 | 97 | 5 | 120 | 10 | 44 | 136 | 136 | 136 | ...... | ...... | e 300 | 23 |
| Ionia............ | e 125 | e 100 | e 75 | ...... | e 120 | e 10 | 141 | 141 | 141 | e 25 | ...... | ...... | e 200 | 56 |
| Iosco............ | 26 | 26 | 26 | 12 | 25 | 7 | 16 | 26 | 26 | 26 | 1 | 12 | 80 | 14 |
| Iron............ | 30 | 27 | 25 | 24 | 15 | † 3 | 23 | 28 | 7 | 25 | 7 | 4 | 28 | 4 |
| Isabella............ | 100 | 91 | 100 | e 69 | e 78 | 67 | 71 | 104 | 104 | 104 | ...... | 3 | 107 | 50 |
| Jackson............ | 140 | 126 | 118 | 100 | 100 | 12 | 100 | 156 | 156 | 115 | ...... | ...... | 265 | 108 |
| Kalamazoo............ | 115 | 110 | 95 | 20 | 100 | 120 | 136 | 136 | 136 | 100 | ...... | 4 | 278 | 151 |
| Kalkaska............ | e 48 | e 48 | e 48 | 2 | e 50 | e 45 | e 50 | e 50 | e 50 | e 50 | ...... | e 35 | e 60 | 16 |
| Kent............ | 205 | 200 | 200 | 85 | 90 | 10 | 205 | 205 | 205 | 205 | ...... | 8 | 401 | 305 |
| Keweenaw............ | 52 | 52 | 52 | 2 | 2 | ...... | 2 | 52 | ...... | 52 | 3 | ...... | 32 | 18 |
| Lake............ | 43 | 43 | 43 | 7 | 26 | 3 | 40 | 45 | 45 | 45 | ...... | 7 | 40 | 14 |
| Lapeer............ | 100 | 80 | 75 | 50 | 125 | 100 | 100 | 135 | 135 | 135 | ...... | ...... | 98 | 98 |
| Leelanau............ | 53 | 41 | 40 | 4 | e 50 | 6 | 58 | 58 | 58 | 58 | ...... | 2 | 67 | 45 |

## TABLE XIV.—Concluded.

| Counties. | Number of schools supplied with dictionaries. | Number of schools supplied with maps. | Number of schools supplied with globes. | Number of schoolhouses properly heated and ventilated. | Number of schools having uniform text-books in each branch. | Number of schools having a prescribed course of study. | Number of schools properly classified. | Number of schools in which physiology, etc., is taught. | Number of districts that have adopted text-books in physiology. | Number of districts that have taught communicable diseases according to law. | Number of townships organized as township districts. | Number of districts furnishing free text-books. | Number of pupils in 8th grade exclusive of graded schools. | Number of 8th grade diplomas granted. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lenawee | 190 | 185 | 181 | 153 | 191 | 150 | 184 | 188 | 196 | 160 | ...... | 2 | 582 | 72 |
| Livingston | 84 | 97 | 81 | 117 | 122 | 130 | 131 | 135 | 135 | 60 | ...... | ...... | 218 | * 105 |
| Luce | † 4 | † 4 | 13 | 1 | 1 | 1 | † 4 | † 4 | ...... | † 4 | 4 | † 4 | 5 | ...... |
| Mackinac | 35 | 38 | 20 | 25 | 40 | ...... | ...... | 45 | ...... | 16 | 11 | † 6 | ...... | 14 |
| Macomb | 113 | 110 | 101 | ...... | 20 | 75 | 40 | 113 | 113 | 113 | ...... | 1 | 62 | 24 |
| Manistee | 54 | 56 | 53 | e 56 | 55 | 8 | 60 | e 55 | e 55 | 60 | ...... | 11 | 119 | 36 |
| Marquette | 30 | 45 | 36 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 18 | 45 | 16 | 1 |
| Mason | 61 | 64 | 60 | 25 | 66 | 66 | 50 | 66 | 66 | 66 | ...... | 20 | 156 | 60 |
| Mecosta | 101 | 96 | 89 | ...... | 50 | 8 | 25 | 107 | 107 | ...... | ...... | 17 | 125 | 52 |
| Menominee | 80 | 80 | 75 | 5 | 80 | 80 | 80 | 80 | 80 | 80 | 6 | 66 | 62 | 14 |
| Midland | e 68 | e 76 | e 50 | 4 | e 32 | 3 | e 75 | 79 | 79 | e 70 | ...... | e 25 | e 170 | 60 |
| Missaukee | 58 | 55 | 59 | ...... | 55 | e 60 | e 50 | e 50 | ...... | ...... | ...... | e 24 | 55 | 27 |
| Monroe | 120 | 125 | 100 | 75 | 125 | 5 | 125 | 136 | 136 | 50 | ...... | 1 | 400 | 82 |
| Montcalm | 125 | 140 | 75 | e 10 | e 130 | e 75 | e 130 | 140 | e 50 | 140 | ...... | 3 | e 150 | 80 |
| Montmorency | 30 | 29 | 18 | 10 | 20 | 4 | 20 | 33 | 33 | 33 | 6 | 33 | 101 | 25 |
| Muskegon | 90 | 90 | 80 | 15 | 80 | 75 | 75 | 85 | 85 | 75 | ...... | 22 | 175 | 89 |
| Newaygo | 116 | 108 | 108 | e 80 | 104 | 5 | e 80 | 117 | 115 | 75 | ...... | 25 | 160 | 63 |
| Oakland | 201 | 190 | 180 | e 175 | 201 | 201 | 195 | 201 | 201 | 201 | ...... | ...... | 200 | 70 |
| Oceana | e 80 | e 80 | e 80 | e 80 | e 80 | 3 | 90 | 90 | 90 | e 90 | ...... | e 5 | 225 | 125 |
| Ogemaw | 40 | 39 | 38 | ...... | ...... | 2 | 41 | 44 | 40 | ...... | 1 | 2 | 27 | 5 |
| Ontonagon | 64 | 68 | 61 | 60 | 70 | 54 | 41 | 78 | 78 | ...... | 10 | 7 | 53 | 7 |
| Osceola | 90 | 87 | 90 | 5 | 93 | 93 | 91 | 93 | 93 | 93 | ...... | 26 | e 225 | 75 |
| Oscoda | 25 | 25 | 25 | 4 | 10 | 10 | 10 | 25 | ...... | 10 | 1 | 11 | 15 | ...... |
| Otsego | 38 | 38 | 38 | 38 | 30 | 38 | 38 | 38 | 38 | 37 | 1 | 7 | 47 | 6 |
| Ottawa | 123 | e 115 | e 115 | e 10 | 123 | ...... | e 115 | e 115 | e 115 | e 115 | ...... | e 20 | e 350 | 149 |
| Presque Isle | 37 | 35 | 30 | 5 | 5 | 3 | 15 | 36 | ...... | 35 | 3 | 10 | 20 | 6 |
| Roscommon | 23 | 23 | 23 | ...... | ...... | 1 | 23 | 23 | ...... | 23 | ...... | ...... | 5 | 9 |
| Saginaw | 160 | 163 | 162 | 20 | 150 | 8 | 128 | 165 | 165 | 165 | ...... | 43 | 617 | 243 |
| St. Clair | 141 | 141 | 139 | 152 | 140 | 152 | 152 | 152 | 152 | 152 | ...... | 22 | 239 | 109 |
| St. Joseph | 121 | 123 | 98 | e 69 | e 95 | 21 | 92 | 123 | ...... | 123 | ...... | ...... | 350 | ...... |
| Sanilac | 153 | 130 | 135 | 10 | 154 | 153 | 153 | 153 | 153 | 153 | ...... | 5 | 600 | 235 |
| Schoolcraft | 28 | 28 | 28 | 25 | 28 | 28 | 28 | 28 | 24 | 28 | 8 | 16 | 34 | 22 |
| Shiawassee | 111 | 105 | 80 | 15 | 50 | 10 | 40 | 122 | 122 | 122 | ...... | 1 | 257 | 121 |
| Tuscola | 140 | 120 | 140 | e 42 | 144 | 149 | e 95 | 149 | 149 | 149 | ...... | 6 | e 450 | 101 |
| Van Buren | 147 | 139 | 146 | 138 | 73 | 152 | 121 | 152 | 152 | 152 | ...... | 2 | 256 | 76 |
| Washtenaw | 152 | 130 | 125 | 10 | 130 | e 160 | 164 | 164 | 164 | 164 | ...... | 12 | 255 | 135 |
| Wayne | 146 | 142 | 136 | 40 | 150 | 150 | 152 | 152 | 152 | 152 | .... | 11 | 219 | 122 |
| Wexford | 76 | 58 | 64 | 78 | 80 | 81 | 81 | 81 | 81 | 81 | .... | 52 | 85 | 52 |

---

* Includes graded schools.
† Townships.
e Estimated.

# TABLE XV.

*Showing the extent to which physiology was taught in the schools of the State during the year ending July 9, 1906, as compiled from directors' reports.*

| Counties. | Number of districts in county. | Number of districts reporting physiology taught. | Number of districts reporting physiology not taught. | Number of districts not reporting. |
|---|---|---|---|---|
| Totals | 7,294 | 6,403 | 205 | 686 |
| Alcona | 34 | 27 | ...... | 7 |
| Alger | 8 | 8 | ...... | ...... |
| Allegan | 185 | 166 | 5 | 14 |
| Alpena | 19 | 13 | 1 | 5 |
| Antrim | 71 | 67 | 3 | 1 |
| Arenac | 41 | 34 | 1 | 6 |
| Baraga | 5 | 5 | ...... | ...... |
| Barry | 144 | 117 | 4 | 23 |
| Bay | 70 | 60 | 3 | 7 |
| Benzie | 52 | 50 | 1 | 1 |
| Berrien | 149 | 136 | 5 | 8 |
| Branch | 127 | 126 | ...... | 1 |
| Calhoun | 164 | 149 | 3 | 12 |
| Cass | 112 | 109 | 1 | 2 |
| Charlevoix | 68 | 61 | 1 | 6 |
| Cheboygan | 56 | 54 | ...... | 2 |
| Chippewa | 56 | 48 | ...... | 8 |
| Clare | 67 | 48 | 2 | 17 |
| Clinton | 129 | 102 | 6 | 21 |
| Crawford | 27 | 20 | 3 | 4 |
| Delta | 31 | 21 | 1 | 9 |
| Dickinson | 8 | 8 | ...... | ...... |
| Eaton | 145 | 125 | 7 | 13 |
| Emmet | 73 | 71 | ...... | 2 |
| Genesee | 157 | 134 | 6 | 17 |
| Gladwin | 49 | 39 | 4 | 6 |
| Gogebic | 7 | 7 | ...... | ...... |
| Grand Traverse | 68 | 61 | 1 | 6 |
| Gratiot | 132 | 126 | 3 | 3 |
| Hillsdale | 163 | 124 | 3 | 36 |
| Houghton | 35 | 28 | 3 | 4 |
| Huron | 119 | 108 | 1 | 10 |
| Ingham | 137 | 123 | 5 | 9 |
| Ionia | 141 | 111 | 5 | 25 |
| Iosco | 30 | 28 | ...... | 2 |
| Iron | 7 | 7 | ...... | ...... |
| Isabella | 105 | 101 | 1 | 3 |
| Jackson | 156 | 133 | 3 | 20 |
| Kalamazoo | 136 | 117 | 5 | 14 |
| Kalkaska | 51 | 47 | 1 | 3 |
| Kent | 206 | 191 | 1 | 14 |
| Keweenaw | 5 | 5 | ...... | ...... |
| Lake | 43 | 34 | 3 | 6 |
| Lapeer | 134 | 112 | 10 | 12 |
| Leelanau | 58 | 50 | 5 | 3 |
| Lenawee | 196 | 190 | 4 | 2 |
| Livingston | 136 | 104 | 6 | 26 |
| Luce | 4 | 4 | ...... | ...... |
| Mackinac | 13 | 12 | ...... | 1 |
| Macomb | 113 | 95 | 4 | 14 |
| Manistee | 64 | 57 | 3 | 4 |
| Marquette | 21 | 21 | ...... | ...... |
| Mason | 64 | 54 | 1 | 9 |
| Mecosta | 108 | 93 | 1 | 14 |
| Menominee | 40 | 38 | ...... | 2 |
| Midland | 80 | 67 | 5 | 8 |
| Missaukee | 62 | 49 | 4 | 9 |
| Monroe | 138 | 127 | 5 | 6 |
| Montcalm | 142 | 125 | 2 | 15 |
| Montmorency | 8 | 8 | ...... | ...... |
| Muskegon | 91 | 74 | 2 | 15 |
| Newaygo | 118 | 109 | 2 | 7 |
| Oakland | 201 | 191 | 2 | 8 |
| Oceana | 91 | 82 | 4 | 5 |
| Ogemaw | 48 | 37 | 4 | 7 |
| Ontonagon | 10 | 10 | ...... | ...... |
| Osceola | 93 | 86 | 2 | 5 |
| Oscoda | 18 | 10 | ...... | 8 |
| Otsego | 36 | 32 | 1 | 3 |
| Ottawa | 124 | 118 | 1 | 5 |
| Presque Isle | 37 | 32 | 1 | 4 |
| Roscommon | 23 | 15 | 3 | 5 |
| Saginaw | 164 | 145 | 4 | 15 |
| St. Clair | 156 | 138 | 3 | 15 |
| St. Joseph | 123 | 106 | 6 | 11 |
| Sanilac | 155 | 129 | 5 | 21 |
| Schoolcraft | 12 | 10 | ...... | 2 |
| Shiawassee | 126 | 123 | 1 | 2 |
| Tuscola | 149 | 129 | 2 | 18 |
| Van Buren | 153 | 132 | 10 | 11 |
| Washtenaw | 166 | 140 | 4 | 22 |
| Wayne | 149 | 126 | 4 | 19 |
| Wexford | 82 | 74 | 2 | 6 |

## TABLE XVI.

*Graded school statistics compiled from inspectors'*

| Districts. | Counties. | Number of children between 5 and 20 years. | Number of children that attended school during the year. | Number of days school. | Percentage of attendance. | Estimated valuation of school property. | Total indebtedness. | Number of teachers employed. | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Men. | Women. |
| Totals | | 430,586 | 303,930 | 108,359 | 84 | $21,706,713 | $3,323,507 81 | 996 | 6,995 |
| Ada | Kent | 117 | 120 | 180 | 70 | $3,000 | | 1 | 2 |
| Addison | Lenawee | 202 | 175 | 180 | 92 | 15,000 | $10,500 00 | 3 | 2 |
| Adrian | Lenawee | 2,574 | 1,791 | 200 | 95 | 150,000 | | 3 | 47 |
| Alabaster | Iosco | 163 | 106 | 180 | 68 | 3,000 | | | 2 |
| Alanson | Emmet | 234 | 206 | 180 | 73 | 5,000 | 1,200 00 | 1 | 4 |
| Alba | Antrim | 178 | 166 | 180 | 71 | 6,000 | | 2 | 2 |
| Albert Tp | Montmorency | 291 | 275 | 136 | 84 | 6,000 | | 2 | 10 |
| Albion | Calhoun | 1,595 | 1,073 | 184 | 95 | 65,000 | | 4 | 23 |
| Alden | Antrim | 138 | 131 | 180 | 71 | 4,000 | 900 | 1 | 2 |
| Algonac | St. Clair | 463 | 350 | 177 | 92 | 13,000 | 1,400 00 | 1 | 8 |
| Allegan | Allegan | 744 | 691 | 190 | 93 | 50,000 | 2,857 14 | 2 | 19 |
| Allen | Hillsdale | 89 | 76 | 180 | 96 | 5,000 | | 1 | 2 |
| Alma | Gratiot | 664 | 617 | 193 | 94 | 60,000 | 19,000 00 | 2 | 16 |
| Almont | Lapeer | 234 | 198 | 199 | 88 | 13,000 | | 1 | 6 |
| Alpena | Alpena | 3,908 | 2,064 | 193 | 94 | 89,000 | | 4 | 43 |
| Ann Arbor | Washtenaw | 3,355 | 2,346 | 190 | 95 | 400,000 | 109,000 00 | 10 | 64 |
| Applegate | Sanilac | 87 | 76 | 180 | 65 | 1,600 | | 1 | |
| Arcadia | Manistee | 180 | 91 | 180 | 70 | 2,000 | | 1 | 1 |
| Armada | Macomb | 220 | 166 | 180 | 93 | 12,000 | | 1 | 5 |
| Ashley | Gratiot | 190 | 186 | 190 | 62 | 3,000 | | 1 | 4 |
| Athens | Calhoun | 177 | 108 | 180 | 94 | 4,000 | | 1 | 4 |
| Atlantic Mine | Houghton | 2,193 | 1,469 | 200 | 83 | 82,000 | 5,833 81 | 8 | 32 |
| Attica | Lapeer | 103 | 93 | 200 | 70 | 1,200 | | 1 | 1 |
| Augusta | Kalamazoo | 155 | 137 | 180 | 81 | 6,000 | | 1 | 5 |
| Au Sable | Iosco | 515 | 381 | 200 | 93 | 7,000 | | 1 | 8 |
| Bad Axe | Huron | 498 | 382 | 189 | 91 | 22,000 | 6,000 00 | 1 | 10 |
| Bainbridge | Berrien | 127 | 87 | 100 | 70 | 2,700 | | 1 | 2 |
| Baldwin | Lake | 132 | 153 | 200 | 75 | 1,200 | | 1 | 2 |
| Bancroft | Shiawassee | 144 | 116 | 200 | 94 | 8,000 | | 1 | 4 |
| Bangor | Van Buren | 397 | 340 | 190 | 90 | 25,000 | 10,500 00 | 2 | 7 |
| Baraga | Baraga | 1,009 | 629 | 200 | 64 | 17,500 | 2,000 00 | 3 | 12 |
| Baroda | Berrien | 185 | 146 | 160 | 85 | 6,000 | | 1 | 2 |
| Barryton | Mecosta | 173 | 158 | 190 | 82 | 6,000 | 1,045 77 | 3 | 3 |
| Bath | Clinton | 86 | 76 | 180 | 83 | 3,000 | | 1 | 2 |
| Battle Creek | Calhoun | 4,619 | 3,852 | 190 | 96 | 450,000 | | 11 | 94 |
| Bay City | Bay | 14,346 | 7,489 | 189 | 97 | 575,000 | 107,000 00 | 19 | 174 |
| Bay Port | Huron | 202 | 124 | 180 | 64 | 2,000 | | 1 | 1 |
| Bear Lake | Manistee | 179 | 151 | 180 | 88 | 6,000 | 1,764 00 | 2 | 2 |
| Beaverton | Gladwin | 308 | 280 | 200 | 78 | 5,205 | 300 00 | 3 | 5 |
| Belding | Ionia | 840 | 763 | 200 | 90 | 18,000 | 9,000 00 | 1 | 19 |
| Bellaire | Antrim | 398 | 370 | 180 | 93 | 8,000 | 864 00 | 1 | 10 |
| Belleville | Wayne | 157 | 131 | 200 | 92 | 11,500 | 3,000 00 | 1 | 3 |
| Bellevue | Eaton | 287 | 248 | 190 | 91 | 6,000 | | 1 | 7 |
| Benton Harbor | Berrien | 1,919 | 1,701 | 180 | 95 | 80,000 | 18,000 00 | 3 | 35 |
| Bensonia | Benzie | 232 | 210 | 180 | 75 | 5,0000 | 600 00 | 1 | 4 |
| Berlamont | Van Buren | 88 | 75 | 180 | 68 | 1,500 | | | 2 |
| Berlin | Ottawa | 137 | 128 | 180 | 89 | 2,500 | | 1 | 2 |
| Berrien Springs | Berrien | 217 | 196 | 180 | 95 | 7,000 | | 1 | 5 |
| Bessemer | Gogebic | 1,226 | 994 | 200 | 97 | 43,000 | | 2 | 26 |
| Big Rapids | Mecosta | 1,333 | 1,005 | 200 | 96 | 40,000 | | 2 | 25 |
| Birmingham | Oakland | 381 | 380 | 200 | 94 | 30,000 | 5,000 00 | 1 | 9 |

## TABLE XVI.

*reports for the year ending July 9, 1903.*

| Aggregate number of months taught by all teachers. | | Total wages of teachers for the year. | | Average monthly wages of teachers. | | Amount paid for superintendence and instruction. | Total cost of school. | Number of non-resident pupils. | Tuition of non-resident pupils. |
|---|---|---|---|---|---|---|---|---|---|
| Men. | Women. | Men. | Women. | Men. | Women. | | | | |
| 9,133.9 | 66,666.9 | $834,021 46 | $3,371,510 18 | $91 31 | $50 57 | $4,201,206 99 | $7,584,396 01 | 10,652 | $104,823 60 |
| 9 | 18 | $468 00 | $540 00 | $52 00 | $30 00 | $1,008 00 | $1,399 23 | 17 | $112 13 |
| 27 | 18 | 1,485 00 | 540 00 | 55 00 | 30 00 | 2,025 00 | 9,202 52 | 23 | 223 67 |
| 30 | 470 | 3,750 00 | 22,176 02 | 125 00 | 47 18 | 25,926 02 | 44,282 54 | 60 | 1,001 85 |
| ........ | 18 | ........ | 765 00 | ........ | 42 50 | 765 00 | 1,170 52 | 4 | ........ |
| 9 | 36 | 495 00 | 1,215 00 | 55 00 | 33 75 | 1,710 00 | 4,377 05 | 7 | 44 65 |
| 18 | 18 | 990 00 | 630 00 | 55 00 | 35 00 | 1,620 00 | 2,455 00 | 3 | 2 00 |
| 13 | 61 | 740 00 | 2,030 00 | 56 92 | 33 28 | 2,770 00 | 4,462 20 | 8 | ........ |
| 38 | 218.5 | 3,850 00 | 11,053 00 | 101 31 | 50 59 | 14,903 00 | 20,817 53 | 53 | 375 00 |
| 9 | 18 | 500 00 | 630 00 | 55 56 | 35 00 | 1,130 00 | 1,434 98 | 7 | 21 00 |
| 9 | 72 | 1,000 00 | 2,872 00 | 111 11 | 39 89 | 3,872 00 | 6,007 68 | 9 | 56 00 |
| 19 | 176 | 2,150 00 | 7,402 00 | 113 16 | 42 06 | 9,552 00 | 14,493 73 | 34 | 398 57 |
| 9 | 18 | 600 00 | 495 00 | 66 67 | 27 50 | 1,095 00 | 1,294 60 | 17 | 93 50 |
| 20 | 155 | 1,700 00 | 6,622 25 | 85 00 | 42 72 | 8,322 25 | 37,261 61 | 28 | 271 25 |
| 10 | 50 | 850 00 | 2,075 00 | 85 00 | 41 50 | 2,925 00 | 4,209 07 | 20 | 272 13 |
| 40 | 430 | 3,700 00 | 17,429 57 | 92 50 | 40 53 | 21,129 57 | 36,149 78 | ........ | ........ |
| 95 | 608 | 14,475 00 | 33,581 41 | 152 37 | 55 23 | 48,056 41 | 200,796 74 | 179 | 4,999 68 |
| 9 | ........ | 405 00 | ........ | 45 00 | ........ | 405 00 | 534 77 | ........ | ........ |
| 9 | 9 | 450 00 | 360 00 | 50 00 | 40 00 | 810 00 | 1,033 88 | ........ | ........ |
| 9 | 45 | 800 00 | 1,542 00 | 88 89 | 34 27 | 2,342 00 | 3,003 01 | 49 | 452 16 |
| 9.5 | 32 | 522 50 | 1,102 50 | 55 00 | 34 45 | 1,625 00 | 2,362 43 | 1 | 3 00 |
| 9 | 36 | 630 00 | 1,355 00 | 70 00 | 37 64 | 1,985 00 | 3,453 17 | 24 | 193 25 |
| 70.8 | 300.2 | 6,290 00 | 15,576 00 | 88 94 | 51 88 | 21,866 00 | 46,171 12 | 7 | ........ |
| 10 | 10 | 500 00 | 280 00 | 50 00 | 28 00 | 780 00 | 989 31 | 9 | 50 51 |
| 9 | 45 | 675 00 | 1,748 00 | 75 00 | 38 85 | 2,423 00 | 3,409 58 | 27 | 182 24 |
| 10 | 80 | 700 00 | 2,727 50 | 70 00 | 34 09 | 3,427 50 | 5,136 65 | 1 | 6 00 |
| 10 | 100 | 1,000 00 | 3,850 00 | 100 00 | 38 50 | 4,850 00 | 7,399 95 | 25 | 212 01 |
| 8 | 7.8 | 400 00 | 272 25 | 50 00 | 35 13 | 672 25 | 802 20 | 4 | 6 00 |
| 10 | 20 | 500 00 | 620 00 | 50 00 | 31 00 | 1,120 00 | 2,091 00 | 5 | ........ |
| 10 | 40 | 735 00 | 1,400 00 | 73 50 | 35 00 | 2,135 00 | 2,831 94 | 25 | 191 90 |
| 19 | 66.5 | 1,280 00 | 2,774 00 | 67 37 | 41 71 | 4,054 00 | 6,081 49 | 61 | 471 97 |
| 30 | 120 | 2,500 00 | 5,350 00 | 83 33 | 44 58 | 7,850 00 | 14,409 03 | ........ | ........ |
| 8 | 16 | 540 00 | 640 00 | 67 50 | 40 00 | 1,180 00 | 1,716 41 | 10 | 69 75 |
| 16 | 18 | 878 50 | 672 50 | 54 90 | 37 36 | 1,551 00 | 2,265 97 | 6 | 22 50 |
| 9 | 14 | 495 00 | 490 00 | 55 00 | 35 00 | 985 00 | 1,314 94 | 6 | 33 60 |
| 110 | 940 | 10,690 00 | 46,321 89 | 97 19 | 49 27 | 57,011 89 | 98,897 80 | 86 | 1,058 89 |
| 190 | 1,740 | 18,456 75 | 79,077 34 | 97 14 | 45 45 | 97,534 09 | 201,992 71 | 269 | 1,380 77 |
| 9 | 9 | 500 00 | 298 50 | 55 56 | 33 17 | 798 50 | 1,126 43 | 8 | 7 19 |
| 18 | 18 | 960 00 | 720 00 | 53 33 | 40 00 | 1,680 00 | 2,669 39 | 15 | 96 98 |
| 30 | 45.8 | 1,450 00 | 1,683 75 | 48 33 | 36 80 | 3,133 75 | 4,590 52 | 5 | 12 10 |
| 10 | 190 | 1,200 00 | 7,359 86 | 120 00 | 38 74 | 8,559 86 | 14,016 18 | 36 | 298 20 |
| 9 | 81.1 | 900 00 | 3,199 00 | 100 00 | 39 44 | 4,099 00 | 5,607 29 | 8 | ........ |
| 10 | 30 | 700 00 | 1,200 00 | 70 00 | 40 00 | 1,900 00 | 2,686 22 | 20 | 161 25 |
| 9.5 | 66.5 | 850 00 | 2,156 75 | 89 47 | 32 43 | 3,006 75 | 5,115 91 | 17 | 133 73 |
| 27 | 315 | 3,450 00 | 13,920 50 | 127 78 | 44 19 | 17,370 50 | 30,093 76 | 55 | 731 45 |
| 9 | 36 | 700 01 | 1,417 50 | 77 78 | 39 38 | 2,117 51 | 2,635 40 | 4 | 14 00 |
| ........ | 18 | ........ | 693 00 | ........ | 38 50 | 693 00 | 977 53 | 9 | 22 75 |
| 9 | 18 | 540 00 | 612 00 | 60 00 | 34 00 | 1,152 00 | 1,472 42 | 15 | 117 00 |
| 9 | 45 | 850 00 | 1,845 00 | 94 44 | 41 00 | 2,695 00 | 3,334 96 | 27 | 264 50 |
| 20 | 260 | 1,950 00 | 13,850 00 | 97 50 | 53 27 | 15,800 00 | 22,586 36 | 8 | 240 00 |
| 20 | 250 | 2,050 00 | 10,705 94 | 102 50 | 42 82 | 12,755 94 | 18,493 42 | 17 | 134 50 |
| 10 | 90 | 1,100 00 | 3,850 00 | 110 00 | 42 78 | 4,950 00 | 8,810 87 | 54 | 671 33 |

## TABLE XVI.—Continued.

| Districts. | Counties. | Number of children between 5 and 20 years. | Number of children that attended school during the year. | Number of days school. | Percentage of attendance. | Estimated valuation of school property. | Total indebtedness. | Number of teachers employed. | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Men. | Women. |
| Blissfield Tp., 1 fr. | Lenawee | 191 | 150 | 200 | 90 | $7,000 | ... | 1 | 3 |
| Blissfield Tp., 2 fr. | Lenawee | 243 | 251 | 200 | 94 | 35,000 | $24,000 00 | 1 | 5 |
| Bloomingdale | Van Buren | 152 | 148 | 180 | 92 | 6,500 | ... | 1 | 4 |
| Boardman | Kalkaska | 203 | 181 | 180 | 92 | 5,000 | 2,100 00 | 1 | 3 |
| Boyne | Charlevoix | 968 | 802 | 180 | 93 | 40,000 | 1,800 00 | 1 | 19 |
| Boyne Falls | Charlevoix | 202 | 130 | 180 | 87 | 5,500 | 2,500 00 | 1 | 5 |
| Breckenridge | Gratiot | 166 | 147 | 180 | 82 | 4,500 | 2,500 00 | 1 | 3 |
| Breedsville | Van Buren | 103 | 73 | 180 | 67 | 9,000 | 4,800 00 | 1 | 1 |
| Bridgehampton Tp. 1 | Sanilac | 70 | 52 | 178 | 61 | 600 | ... | 1 | ... |
| Bridgehampton Tp. 2 | Sanilac | 93 | 66 | 200 | 59 | 1,500 | ... | 1 | ... |
| Bridgehampton Tp., 5 fr | Sanilac | 71 | 50 | 180 | 53 | 800 | ... | ... | 1 |
| Bridgeman | Berrien | 157 | 102 | 160 | 68 | 1,500 | 600 00 | 1 | 1 |
| Bridgeport | Saginaw | 138 | 96 | 180 | 86 | 5,000 | ... | 1 | 1 |
| Brighton | Livingston | 189 | 172 | 200 | 96 | 19,000 | 2,500 00 | 1 | 5 |
| Britton | Lenawee | 136 | 107 | 180 | 90 | 9,000 | 2,750 00 | ... | 3 |
| Bronson | Branch | 291 | 233 | 190 | 91 | 15,000 | 4,000 00 | 2 | 6 |
| Brooklyn | Jackson | 155 | 139 | 190 | 95 | 6,000 | ... | 1 | 5 |
| Brown City | Sanilac | 218 | 200 | 200 | 71 | 8,000 | 4,500 00 | 2 | 2 |
| Buchanan | Berrien | 418 | 366 | 190 | 82 | 6,000 | ... | 2 | 11 |
| Burden | Sanilac | 182 | 84 | 187 | 61 | 2,000 | ... | 1 | ... |
| Burlington | Calhoun | 102 | 79 | 176 | 88 | 1,200 | ... | 1 | 2 |
| Burnips Corners | Allegan | 104 | 90 | 180 | 78 | 2,000 | ... | 1 | 1 |
| Burr Oak | St. Joseph | 168 | 136 | 180 | 91 | 18,000 | ... | 1 | 6 |
| Burt Tp. | Alger | 593 | 443 | 200 | 87 | 20,000 | 15,446 19 | 1 | 10 |
| Byron | Shiawassee | 127 | 112 | 200 | 81 | 7,000 | ... | 1 | 3 |
| Cadillac | Wexford | 2,304 | 1,769 | 180 | 93 | 85,000 | 4,000 00 | 1 | 40 |
| Cady | Macomb | 146 | 54 | 180 | 61 | 1,000 | ... | ... | 1 |
| Caledonia | Kent | 167 | 162 | 200 | 80 | 6,000 | ... | 1 | 3 |
| Caledonia Tp. 3 | Kent | 47 | 36 | 180 | 78 | 2,000 | ... | 1 | ... |
| Calumet | Houghton | 7,942 | 6,031 | 200 | 94 | 55,000 | ... | 7 | 152 |
| Calumet Tp. 2 | Houghton | 1,471 | 1,165 | 200 | 88 | 26,579 | ... | 1 | 26 |
| Camden | Hillsdale | 115 | 95 | 180 | 81 | 8,000 | 2,300 00 | 2 | 6 |
| Cannon Tp., 2. fr. | Kent | 78 | 58 | 180 | 55 | 1,500 | ... | 1 | 1 |
| Capac | St. Clair | 233 | 216 | 200 | 85 | 10,000 | ... | 2 | 4 |
| Caro | Tuscola | 566 | 454 | 200 | 96 | 22,000 | ... | 3 | 15 |
| Carrollton Tp. 1 | Saginaw | 460 | 272 | 200 | 80 | 10,000 | ... | 1 | 5 |
| Carrollton Tp. 2 | Saginaw | 308 | 150 | 200 | 71 | 4,000 | ... | 1 | 2 |
| Carson City | Montcalm | 274 | 232 | 188 | 79 | 15,000 | 7,144 70 | 1 | 7 |
| Carsonville | Sanilac | 211 | 180 | 200 | 80 | 4,000 | 500 00 | 1 | 2 |
| Caseville | Huron | 193 | 164 | 200 | 90 | 5,000 | ... | 2 | 3 |
| Casnovia | Muskegon | 94 | 83 | 180 | 80 | 4,500 | 1,400 00 | 1 | 2 |
| Cass City | Tuscola | 440 | 394 | 200 | 91 | 7,000 | ... | 2 | 8 |
| Cassopolis | Cass | 274 | 260 | 190 | 92 | 18,000 | ... | 1 | 9 |
| Cedar City | Leelanau | 122 | 108 | 190 | 68 | 1,000 | ... | 2 | 1 |
| Cedar Springs | Kent | 291 | 251 | 190 | 83 | 20,000 | ... | 1 | 6 |
| Central Lake | Antrim | 360 | 326 | 176 | 92 | 19,000 | 123 43 | 1 | 8 |
| Centreville | St. Joseph | 171 | 182 | 180 | 91 | 15,000 | ... | 1 | 5 |
| Ceresco | Calhoun | 72 | 60 | 180 | 85 | 1,200 | ... | 2 | 1 |
| Champion Tp. | Marquette | 591 | 369 | 200 | 89 | 12,000 | ... | 2 | 7 |
| Chandler Tp., 5 fr. | Huron | 187 | 127 | 180 | 56 | 1,600 | ... | ... | 2 |
| Charlevoix | Charlevoix | 755 | 581 | 178 | 93 | 42,000 | 28,000 00 | 3 | 20 |
| Charlotte | Eaton | 1,005 | 888 | 186 | 97 | 40,000 | ... | 2 | 25 |
| Charlton Tp. | Otsego | 149 | 110 | 180 | 70 | 6,000 | 3,000 00 | 1 | 4 |
| Chase | Lake | 119 | 119 | 180 | 50 | 1,500 | ... | 1 | 1 |
| Chauvin | Wayne | 401 | 268 | 200 | 88 | 16,100 | 28,000 00 | 1 | 4 |
| Cheboygan | Cheboygan | 2,254 | 1,455 | 196 | 93 | 68,000 | 32,000 00 | 4 | 26 |
| Chelsea | Washtenaw | 492 | 414 | 200 | 92 | 15,000 | 600 00 | 1 | 13 |
| Chesaning | Saginaw | 307 | 285 | 200 | 94 | 25,000 | ... | 2 | 7 |
| Chief | Manistee | 109 | 83 | 180 | 64 | 900 | 200 00 | ... | 2 |

## TABLE XVI.—Continued.

| Aggregate number of months taught by all teachers. | | Total wages of teachers for the year. | | Average monthly wages of teachers. | | Amount paid for superintendence and instruction. | Total cost of school. | Number of non-resident pupils. | Tuition of non-resident pupils. |
|---|---|---|---|---|---|---|---|---|---|
| Men. | Women. | Men. | Women. | Men. | Women. | | | | |
| 10 | 30 | $700 00 | $970 00 | $70 00 | $32 33 | $1,670 00 | $2,412 09 | 17 | $105 75 |
| 10 | 45.5 | 775 00 | 1,565 00 | 77 50 | 34 40 | 2,340 00 | 31,378 23 | 26 | 184 41 |
| 9 | 27 | 880 00 | 1,048 75 | 97 78 | 38 84 | 1,928 75 | 2,697 41 | 16 | 120 25 |
| 9 | 27 | 540 00 | 1,008 00 | 60 00 | 37 33 | 1,548 00 | 2,309 65 | 8 | 50 00 |
| 9 | 158.2 | 1,000 00 | 6,588 05 | 111 11 | 41 63 | 7,588 05 | 12,636 43 | 18 | 134 63 |
| 9 | 27.5 | 555 00 | 1,063 75 | 61 67 | 38 68 | 1,618 75 | 2,500 74 | 1 | 8 00 |
| 9 | 27 | 475 00 | 900 00 | 52 78 | 33 33 | 1,375 00 | 1,835 64 | 22 | 155 30 |
| 9 | 9 | 540 00 | 315 00 | 60 00 | 35 00 | 855 00 | 1,623 35 | 9 | 38 25 |
| 9 | | 315 00 | | 35 00 | | 315 00 | 443 71 | 8 | |
| 10 | | 500 00 | | 50 00 | | 500 00 | 621 80 | 3 | |
| | 9 | | 360 00 | | 40 00 | 360 00 | 1,028 95 | 1 | |
| 8 | 7.5 | 360 00 | 225 00 | 45 00 | 30 00 | 585 00 | 1,561 29 | | |
| 9 | 9 | 500 00 | 315 00 | 55 56 | 35 00 | 815 00 | 1,048 97 | 5 | 12 60 |
| 10 | 50 | 850 00 | 1,585 00 | 85 00 | 31 70 | 2,435 00 | 3,607 97 | 17 | 179 10 |
| | 27 | | 1,035 00 | | 38 33 | 1,035 00 | 1,660 09 | 8 | 71 50 |
| 19 | 57 | 1,045 00 | 2,327 50 | 55 00 | 40 83 | 3,372 50 | 4,763 00 | 18 | 156 90 |
| 9.5 | 38 | 750 00 | 1,649 95 | 78 95 | 43 42 | 2,399 95 | 3,219 92 | 35 | 233 35 |
| 20 | 20 | 1,175 00 | 770 00 | 58 75 | 38 50 | 1,945 00 | 2,834 91 | 45 | 337 18 |
| 19 | 99.8 | 1,569 97 | 4,512 50 | 82 63 | 45 24 | 6,082 47 | 8,316 01 | 47 | 451 28 |
| 10 | | 500 00 | | 50 00 | | 500 00 | 602 07 | 5 | |
| 9 | 18 | 450 00 | 500 00 | 50 00 | 27 78 | 950 00 | 1,154 11 | 6 | 50 90 |
| 9 | 9 | 495 00 | 315 00 | 55 00 | 35 00 | 810 00 | 1,079 11 | 7 | 86 40 |
| 9 | 54 | 630 55 | 2,025 00 | 70 06 | 37 50 | 2,655 55 | 3,681 38 | 17 | 228 60 |
| 10 | 100 | 1,100 00 | 5,600 00 | 110 00 | 56 00 | 6,700 00 | 25,026 88 | | |
| 10 | 30 | 600 00 | 975 00 | 60 00 | 32 50 | 1,575 00 | 2,143 51 | 18 | 193 95 |
| 9 | 360 | 1,800 00 | 18,590 79 | 200 00 | 51 64 | 20,390 79 | 33,171 80 | 9 | 56 00 |
| | 9 | | 405 00 | | 45 00 | 405 00 | 554 03 | 11 | |
| 10 | 30 | 750 00 | 1,090 00 | 75 00 | 36 33 | 1,840 00 | 2,272 38 | 37 | 307 00 |
| 9 | | 360 00 | | 40 00 | | 360 00 | 450 55 | 2 | 4 25 |
| 70 | 1,509 | 10,300 00 | 84,754 41 | 147 14 | 56 17 | 95,054 41 | 152,645 94 | 38 | 1,443 00 |
| 10 | 235 | 696 50 | 13,371 39 | 69 65 | 56 93 | 14,067 89 | 26,860 95 | | |
| 11 | 32.7 | 638 49 | 1,081 94 | 58 04 | 33 03 | 1,720 43 | 2,515 87 | 22 | 156 99 |
| 9 | 9 | 405 00 | 270 00 | 45 00 | 30 00 | 675 00 | 795 11 | 4 | 27 90 |
| 20 | 30 | 1,050 00 | 1,200 00 | 52 50 | 40 00 | 2,250 00 | 3,023 87 | 27 | 330 02 |
| 27.5 | 132.5 | 2,212 50 | 5,357 50 | 80 45 | 40 43 | 7,570 00 | 10,787 42 | 80 | 725 31 |
| 10 | 50 | 750 00 | 1,580 00 | 75 00 | 31 60 | 2,330 00 | 3,266 86 | 4 | 15 00 |
| 10 | 20 | 550 00 | 775 00 | 55 00 | 38 75 | 1,325 00 | 2,007 64 | | |
| 9.5 | 61.8 | 850 00 | 2,493 75 | 89 47 | 40 38 | 3,343 75 | 5,215 37 | 35 | 352 68 |
| 10 | 20 | 650 00 | 750 00 | 65 00 | 37 50 | 1,400 00 | 2,359 57 | 6 | |
| 10 | 20.2 | 616 25 | 805 00 | 61 62 | 39 75 | 1,421 25 | 1,846 67 | 8 | |
| 9 | 18 | 585 00 | 585 00 | 65 00 | 32 50 | 1,170 00 | 3,701 07 | 14 | 152 26 |
| 16 | 74 | 1,270 00 | 2,960 00 | 79 37 | 40 00 | 4,230 00 | 5,491 99 | 57 | 566 78 |
| 9.5 | 72.5 | 1,000 00 | 3,006 50 | 105 27 | 41 47 | 4,006 50 | 5,317 34 | 16 | 189 20 |
| 9 | 9 | 421 75 | 360 00 | 46 86 | 40 00 | 781 75 | 888 62 | | |
| 9.5 | 57 | 850 00 | 2,426 00 | 89 47 | 42 56 | 3,276 00 | 4,409 07 | 30 | 320 40 |
| 9 | 72 | 900 00 | 2,857 50 | 100 00 | 39 69 | 3,757 50 | 5,542 22 | 17 | 147 93 |
| 9 | 45 | 800 00 | 1,800 00 | 88 89 | 40 00 | 2,600 00 | 3,306 72 | 10 | 1 22 |
| 9 | 9 | 360 00 | 264 00 | 40 00 | 29 33 | 624 00 | 777 50 | | |
| 20 | 70 | 2,150 00 | 3,700 00 | 107 50 | 52 86 | 5,850 00 | 8,392 62 | | |
| | 18 | | 612 00 | | 34 00 | 612 00 | 896 24 | | |
| 18.7 | 161.8 | 1,450 00 | 7,071 19 | 77 33 | 43 85 | 8,521 19 | 13,278 06 | 22 | 115 42 |
| 18.6 | 232.5 | 2,250 00 | 11,421 62 | 120 96 | 49 12 | 13,671 62 | 20,249 97 | 73 | 1,121 98 |
| 9 | 32 | 360 00 | 1,345 00 | 40 00 | 42 03 | 1,705 00 | 2,383 18 | 2 | |
| 9 | 9 | 450 00 | 315 00 | 50 00 | 35 00 | 765 00 | 969 78 | 1 | 1 21 |
| 10 | 33.3 | 750 00 | 1,580 00 | 75 00 | 47 52 | 2,330 00 | 6,786 33 | | |
| 34 | 260 | 2,800 00 | 10,466 87 | 82 35 | 40 26 | 13,266 87 | 22,869 09 | 29 | 272 71 |
| 10 | 130 | 1,050 00 | 4,861 00 | 105 00 | 37 39 | 5,911 00 | 8,849 80 | 35 | 454 88 |
| 20 | 60 | 1,440 00 | 2,277 63 | 72 00 | 37 96 | 3,717 63 | 4,798 83 | 32 | 185 75 |
| | 15.5 | | 690 00 | | 44 52 | 690 00 | 1,033 76 | 3 | |

## TABLE XVI.—Continued.

| Districts. | Counties. | Number of children between 5 and 20 years. | Number of children that attended school during the year. | Number of days school. | Percentage of attendance. | Estimated valuation of school property. | Total indebtedness. | Number of teachers employed. | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Men. | Women. |
| Chickaming Tp. 3 | Berrien | 98 | 61 | 160 | 30 | $1,600 | | 1 | 1 |
| China Tp. 4 | St. Clair | 116 | 81 | 180 | 80 | 1,500 | | 1 | 1 |
| Clare | Clare | 508 | 425 | 199 | 90 | 26,500 | | 1 | 10 |
| Clarkston | Oakland | 153 | 122 | 200 | 81 | 4,000 | | 1 | 3 |
| Clarksville | Ionia | 103 | 81 | 180 | 89 | 4,000 | | 1 | 2 |
| Clayton | Lenawee | 97 | 72 | 180 | 98 | 1,500 | | 1 | 2 |
| Climax | Kalamazoo | 141 | 128 | 180 | 91 | 6,000 | | 1 | 4 |
| Clinton | Lenawee | 239 | 205 | 157 | 90 | 20,000 | $15,500 00 | 1 | 6 |
| Clio | Genesee | 159 | 153 | 200 | 70 | 7,000 | | 1 | 6 |
| Coldwater | Branch | 1,342 | 1,150 | 181 | 95 | 100,000 | 1,000 00 | 4 | 30 |
| Coleman | Midland | 405 | 404 | 200 | 66 | 12,000 | 500 00 | 3 | 7 |
| Coloma | Berrien | 225 | 221 | 180 | 83 | 8,000 | 2,200 00 | 1 | 6 |
| Colon | St. Joseph | 205 | 168 | 180 | 95 | 6,000 | 3,850 00 | 1 | 6 |
| Columbiaville | Lapeer | 157 | 122 | 200 | 60 | 16,000 | | 1 | 4 |
| Commerce Tp. 10 | Oakland | 33 | 20 | 180 | 60 | 600 | | | 1 |
| Comstock | Kalamazoo | 129 | 76 | 180 | 72 | 3,500 | | | 2 |
| Concord | Jackson | 117 | 95 | 190 | 95 | 9,000 | | 2 | 5 |
| Conklin | Ottawa | 90 | 75 | 180 | 76 | 1,200 | | | 2 |
| Constantine | St. Joseph | 279 | 245 | 190 | 85 | 25,000 | | 1 | 8 |
| Coopersville | Ottawa | 203 | 186 | 190 | 95 | 5,000 | | 1 | 4 |
| Copemish | Manistee | 138 | 113 | 180 | 80 | 1,800 | | | 3 |
| Coral | Montcalm | 143 | 112 | 180 | 90 | 3,000 | | 1 | 3 |
| Corunna | Shiawassee | 406 | 393 | 200 | 96 | 35,000 | 2,500 00 | 1 | 13 |
| Covert | Van Buren | 196 | 151 | 180 | 89 | 3,000 | | 2 | 3 |
| Croswell | Sanilac | 357 | 294 | 200 | 94 | 7,000 | 1,500 00 | 2 | 5 |
| Crystal | Montcalm | 106 | 104 | 180 | 93 | 4,000 | | 1 | 1 |
| Crystal Falls | Iron | 1,308 | 1,065 | 186 | 78 | 63,000 | 52,000 00 | 1 | 30 |
| Custer | Mason | 139 | 113 | 180 | 71 | 2,500 | | 1 | 2 |
| Dansville | Ingham | 90 | 82 | 200 | 93 | 4,500 | | 2 | 2 |
| Davison | Genesee | 210 | 184 | 200 | 89 | 10,000 | | 3 | 3 |
| Dearborn | Wayne | 364 | 269 | 199 | 86 | 20,000 | | 1 | 6 |
| Decatur | Van Buren | 374 | 319 | 190 | 94 | 15,000 | | 1 | 7 |
| Deckerville | Sanilac | 187 | 164 | 180 | 72 | 8,500 | 5,000 00 | 1 | 3 |
| Deerfield | Lenawee | 172 | 139 | 180 | 85 | 8,000 | | 1 | 5 |
| Delray | Wayne | * | 1,286 | 200 | 88 | 200,000 | 151,000 00 | 6 | 34 |
| Detour | Chippewa | 359 | 257 | 174 | 68 | 5,000 | 1,500 00 | 1 | 6 |
| Detroit | Wayne | 92,747 | 56,216 | 200 | 94 | 3,896,765 | | 74 | 1,011 |
| De Witt | Clinton | 115 | 91 | 180 | 72 | 3,500 | | 1 | 1 |
| Dexter | Washtenaw | 273 | 212 | 180 | 96 | 20,000 | 1,000 00 | 1 | 7 |
| Dimondale | Eaton | 103 | 97 | 180 | 78 | 2,200 | | 1 | 2 |
| Dollar Bay | Houghton | 686 | 563 | 200 | 95 | 25,000 | 14,000 00 | 1 | 17 |
| Dorr | Allegan | 101 | 88 | 179 | 81 | 1,000 | | | 2 |
| Douglas | Allegan | 155 | 133 | 180 | 90 | 5,000 | | 1 | 3 |
| Dowagiac | Cass | 1,160 | 1,094 | 200 | 97 | 75,000 | 35,400 00 | 4 | 27 |
| Downington | Sanilac | 83 | 81 | 190 | 69 | 1,200 | 300 00 | | 1 |
| Dryden | Lapeer | 137 | 95 | 195 | 80 | 3,000 | | 1 | 2 |
| Dundee | Monroe | 270 | 251 | 180 | 92 | 20,000 | | 1 | 8 |
| Durand | Shiawassee | 490 | 461 | 197 | 92 | 25,000 | 2,400 00 | 3 | 12 |
| East Grand Rapids | Kent | 151 | 113 | 200 | 62 | 6,000 | 2,000 00 | | 3 |
| East Jordan | Charlevoix | 700 | 563 | 180 | 92 | 19,500 | 3,400 00 | 4 | 12 |
| Eastlake | Manistee | 746 | 417 | 200 | 81 | 6,500 | | 1 | 6 |
| East Tawas | Iosco | 564 | 468 | 177 | 87 | 10,500 | | | 10 |
| Eaton Rapids | Eaton | 425 | 373 | 195 | 77 | 17,000 | | 2 | 12 |
| Eau Claire | Berrien | 145 | 100 | 180 | 77 | 6,000 | | 2 | 3 |
| Ecorse Tp. 1 | Wayne | 390 | 311 | 180 | 73 | 18,000 | 6,375 00 | 1 | 6 |
| Ecorse Tp. 3 | Wayne | 274 | 189 | 200 | 93 | 10,000 | | 1 | 4 |
| Edenville | Midland | 113 | 70 | 180 | 69 | 1,500 | | 1 | 1 |
| Edmore | Montcalm | 278 | 249 | 190 | 93 | 3,000 | | 1 | 4 |
| Edwardsburg | Cass | 89 | 69 | 180 | 97 | 3,000 | | 1 | 3 |

---

Included in Detroit as 18th ward.

## TABLE XVI.—Continued.

| Aggregate number of months taught by all teachers. | | Total wages of teachers for the year. | | Average monthly wages of teachers. | | Amount paid for superintendence and instruction. | Total cost of school. | Number of non-resident pupils. | Tuition of non-resident pupils. |
|---|---|---|---|---|---|---|---|---|---|
| Men. | Women. | Men. | Women. | Men. | Women. | | | | |
| 9 | 8 | $320 00 | $315 00 | $35 56 | $39 37 | $635 00 | $761 13 | ........ | ........ |
| 9 | 9 | 405 00 | 270 00 | 45 00 | 30 00 | 675 00 | 835 11 | 1 | $20 00 |
| 10 | 100 | 800 00 | 3,625 00 | 80 00 | 36 25 | 4,425 00 | 6,004 00 | 22 | 192 18 |
| 10 | 30 | 850 00 | 1,200 00 | 85 00 | 40 00 | 2,050 00 | 2,751 41 | 20 | 191 85 |
| 9 | 18 | 585 00 | 720 00 | 65 00 | 40 00 | 1,305 00 | 1,701 64 | 6 | 41 35 |
| 9 | 18 | 650 00 | 495 00 | 72 22 | 27 50 | 1,145 00 | 1,355 04 | 16 | 116 50 |
| 9 | 27 | 495 00 | 945 00 | 55 00 | 35 00 | 1,440 00 | 2,265 14 | 13 | 199 03 |
| 9 | 52 | 900 00 | 2,162 50 | 100 00 | 41 59 | 3,062 50 | 23,076 67 | 18 | 196 85 |
| 10 | 60 | 750 00 | 2,220 00 | 75 00 | 37 00 | 2,970 00 | 3,750 38 | 36 | 408 95 |
| 40 | 296 | 4,655 00 | 17,477 12 | 116 37 | 59 05 | 22,132 12 | 30,971 17 | 48 | 520 95 |
| 20 | 70 | 1,170 50 | 2,314 75 | 58 52 | 33 07 | 3,485 25 | 4,375 09 | 10 | 61 00 |
| 9 | 54 | 630 00 | 2,025 00 | 70 00 | 37 50 | 2,655 00 | 3,330 09 | 12 | 196 50 |
| 9 | 54 | 750 00 | 2,205 00 | 83 33 | 40 83 | 2,955 00 | 3,915 31 | 23 | 226 90 |
| 10 | 30 | 650 00 | 1,046 50 | 65 00 | 34 88 | 1,696 50 | 2,530 71 | 12 | 67 92 |
| ........ | 9 | ........ | 360 00 | ........ | 40 00 | 360 00 | 456 65 | ........ | ........ |
| ........ | 18 | ........ | 615 00 | ........ | 34 17 | 615 00 | 946 31 | 2 | 8 00 |
| 19 | 28 | 1,180 00 | 1,118 00 | 62 10 | 39 93 | 2,298 00 | 2,973 38 | 27 | 264 58 |
| ........ | 18 | ........ | 612 00 | ........ | 34 00 | 612 00 | 734 52 | 10 | 35 25 |
| 9.5 | 66.5 | 1,300 00 | 2,700 00 | 136 84 | 40 60 | 4,000 00 | 5,033 74 | 28 | 339 75 |
| 9.5 | 38 | 600 00 | 1,452 50 | 63 16 | 38 22 | 2,052 50 | 2,528 42 | 26 | 262 53 |
| ........ | 26 | ........ | 1,075 00 | ........ | 41 35 | 1,075 00 | 1,446 01 | 2 | ........ |
| 9 | 18 | 450 00 | 572 50 | 50 00 | 31 80 | 1,022 50 | 1,307 84 | 12 | 49 00 |
| 10 | 112 | 1,200 00 | 4,605 00 | 120 00 | 41 11 | 5,805 00 | 8,832 31 | 39 | 297 54 |
| 18 | 27 | 1,080 00 | 720 00 | 60 00 | 26 67 | 1,800 00 | 2,313 34 | 19 | 51 05 |
| 20 | 50 | 1,350 00 | 2,100 00 | 67 50 | 42 00 | 3,450 00 | 4,603 19 | 16 | 141 00 |
| 9 | 9 | 450 00 | 270 00 | 50 00 | 30 00 | 720 00 | 1,031 62 | 12 | 52 00 |
| 10 | 274 | 1,600 00 | 13,988 00 | 160 00 | 51 05 | 15,588 00 | 26,047 83 | 5 | ........ |
| 9 | 9 | 450 00 | 315 00 | 50 00 | 35 00 | 765 00 | 1,012 75 | ........ | ........ |
| 20 | 20 | 1,030 00 | 660 00 | 51 50 | 33 00 | 1,690 00 | 2,020 97 | 16 | 80 50 |
| 30 | 39 | 1,250 00 | 1,050 00 | 41 67 | 35 00 | 2,300 00 | 3,606 92 | 32 | 319 26 |
| 10 | 60 | 800 00 | 1,950 00 | 80 00 | 32 50 | 2,750 00 | 3,746 17 | 14 | 81 50 |
| 9.5 | 66.5 | 1,000 00 | 2,501 89 | 105 26 | 37 62 | 3,501 89 | 5,392 60 | 41 | 336 30 |
| 9 | 27 | 675 00 | 900 00 | 75 00 | 33 33 | 1,575 00 | 3,499 95 | 17 | 146 60 |
| 9 | 36 | 630 00 | 1,165 60 | 70 00 | 32 38 | 1,795 60 | 2,263 78 | 12 | 70 75 |
| 60 | 340 | 5,830 00 | 18,988 00 | 97 17 | 55 85 | 24,818 00 | 37,703 47 | 5 | 40 00 |
| 10 | 56 | 750 00 | 2,130 00 | 75 00 | 38 04 | 2,880 00 | 4,692 90 | ........ | ........ |
| 740 | 10,110 | 105,675 00 | 727,497 34 | 142 80 | 71 95 | 833,172 34 | 1,477,466 47 | 158 | ........ |
| 9 | 9 | 522 50 | 332 50 | 58 06 | 36 94 | 855 00 | 1,024 95 | 4 | 51 00 |
| 9 | 55.8 | 810 00 | 2,475 00 | 90 00 | 44 35 | 3,285 00 | 4,558 75 | 20 | 259 45 |
| 9 | 18 | 495 00 | 720 00 | 55 00 | 40 00 | 1,215 00 | 1,584 68 | 10 | 72 77 |
| 10 | 170 | 1,200 00 | 8,450 00 | 120 00 | 49 71 | 9,650 00 | 14,631 91 | 4 | ........ |
| ........ | 18 | ........ | 720 00 | ........ | 40 00 | 720 00 | 868 03 | 1 | 7 50 |
| 9 | 26.5 | 585 00 | 1,060 00 | 65 00 | 40 00 | 1,645 00 | 2,262 33 | 3 | 17 05 |
| 40 | 270 | 3,225 00 | 10,461 75 | 80 62 | 38 75 | 13,086 75 | 20,526 74 | 36 | 430 98 |
| ........ | 9.5 | ........ | 475 00 | ........ | 50 00 | 475 00 | 2,277 92 | 7 | 12 50 |
| 10 | 20 | 650 00 | 700 00 | 65 00 | 35 00 | 1,350 00 | 1,773 51 | 16 | 71 69 |
| 9 | 72 | 750 00 | 2,565 00 | 83 33 | 35 62 | 3,315 00 | 4,292 97 | 20 | 240 95 |
| 24 | 106 | 1,730 00 | 4,102 25 | 72 08 | 38 70 | 5,832 25 | 9,106 99 | 31 | 130 00 |
| ........ | 30 | ........ | 1,100 00 | ........ | 36 67 | 1,100 00 | 1,632 93 | 1 | ........ |
| 35 | 103.8 | 2,035 00 | 3,945 00 | 58 14 | 38 02 | 5,980 00 | 8,092 61 | 21 | 54 50 |
| 10 | 60 | 750 00 | 2,630 00 | 75 00 | 43 83 | 3,380 00 | 5,202 09 | ........ | ........ |
| ........ | 90 | ........ | 3,848 60 | ........ | 42 76 | 3,848 60 | 5,654 34 | 1 | ........ |
| 20 | 120 | 1,800 00 | 5,060 00 | 90 00 | 42 17 | 6,860 00 | 9,437 68 | 45 | 554 11 |
| 9 | 27 | 580 27 | 1,012 50 | 64 47 | 37 50 | 1,592 77 | 1,870 86 | 11 | 70 00 |
| 10 | 50 | 750 00 | 1,925 00 | 75 00 | 38 50 | 2,675 00 | 4,512 31 | ........ | ........ |
| 10 | 40 | 675 00 | 1,600 00 | 67 50 | 40 00 | 2,275 00 | 3,243 50 | ........ | ........ |
| 9 | 9 | 405 00 | 297 00 | 45 00 | 33 00 | 702 00 | 886 73 | 5 | 38 |
| 9.5 | 38 | 600 00 | 1,377 50 | 63 16 | 36 25 | 1,977 50 | 2,790 82 | 22 | 125 80 |
| 9 | 27 | 540 00 | 990 00 | 60 00 | 36 67 | 1,530 00 | 1,860 50 | 42 | 228 01 |

## TABLE XVI.—CONTINUED.

| Districts. | Counties. | Number of children between 5 and 20 years. | Number of children that attended school during the year. | Number of days school. | Percentage of attendance. | Estimated valuation of school property. | Total indebtedness. | Number of teachers employed. | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Men. | Women. |
| Elk Rapids | Antrim | 546 | 484 | 168 | 92 | $30,000 | ........ | 1 | 15 |
| Elkton | Huron | 305 | 242 | 198 | 77 | 8,000 | $5,000 00 | 1 | 5 |
| Elk Tp., 4 fr | Sanilac | 98 | 81 | 200 | 60 | 800 | ........ | 1 | ...... |
| Elm Hall | Gratiot | 102 | 77 | 172 | 78 | 2,500 | ........ | 1 | 1 |
| Elmira | Otsego | 157 | 137 | 180 | 65 | 1,000 | ........ | 3 | 1 |
| Elsie | Clinton | 209 | 182 | 190 | 92 | 25,000 | 11,000 00 | 1 | 4 |
| Empire | Leelanau | 217 | 167 | 176 | 86 | 5,000 | ........ | 2 | 3 |
| Erie | Monroe | 166 | 140 | 160 | 68 | 6,000 | 1,289 81 | 2 | 1 |
| Escanaba | Delta | 3,976 | 2,687 | 200 | 97 | 132,500 | 76,000 00 | 5 | 57 |
| Essexville | Bay | 553 | 141 | 200 | 90 | 7,000 | ........ | 2 | 3 |
| Estey | Gladwin | 112 | 77 | 180 | 60 | 1,500 | ........ | ...... | 2 |
| Evangeline Tp. 7 | Charlevoix | 201 | 195 | 180 | 81 | 4,760 | 2,139 00 | ...... | 4 |
| Evart | Osceola | 466 | 391 | 200 | 94 | 15,000 | 3,500 00 | 1 | 11 |
| Farmington | Oakland | 152 | 122 | 177 | 85 | 5,000 | ........ | 1 | 4 |
| Farwell | Clare | 279 | 226 | 180 | 82 | 3,000 | ........ | 1 | 6 |
| Fennville | Allegan | 239 | 171 | 180 | 93 | 4,000 | ........ | 1 | 4 |
| Fenton | Genesee | 563 | 535 | 200 | 95 | 75,000 | 550 00 | 2 | 13 |
| Fife Lake | Grand Traverse | 131 | 129 | 180 | 90 | 4,000 | ........ | 1 | 2 |
| Filion | Huron | 79 | 68 | 199 | 62 | 500 | ........ | ...... | 1 |
| Fillmore Tp. 1 | Allegan | 141 | 92 | 180 | 80 | 2,000 | ........ | 1 | 1 |
| Fillmore Tp. 2 | Allegan | 165 | 143 | 200 | 82 | 2,200 | ........ | ...... | 2 |
| Flat Rock | Wayne | 145 | 126 | 200 | 87 | 12,000 | ........ | 1 | 4 |
| Flint | Genesee | 3,518 | 2,586 | 200 | 95 | 300,000 | 73,000 00 | 5 | 75 |
| Flushing | Genesee | 223 | 175 | 200 | 91 | 10,000 | ........ | 2 | 4 |
| Forest Grove | Ottawa | 103 | 75 | 180 | 81 | 1,500 | ........ | 1 | 1 |
| Forestville | Sanilac | 99 | 79 | 180 | 42 | 1,200 | ........ | ...... | 2 |
| Fostoria | Tuscola | 124 | 108 | 200 | 86 | 3,600 | ........ | 1 | 2 |
| Fowlerville | Livingston | 300 | 156 | 200 | 94 | 10,000 | ........ | 1 | 7 |
| Frankfort | Benzie | 639 | 481 | 200 | 94 | 30,000 | 10,035 00 | 1 | 14 |
| Freeport | Barry | 162 | 155 | 180 | 90 | 3,000 | ........ | 2 | 3 |
| Fremont | Newaygo | 392 | 365 | 200 | 94 | 15,000 | ........ | 2 | 10 |
| Frontier | Hillsdale | 97 | 82 | 180 | 82 | 3,000 | ........ | 1 | 2 |
| Fruitport | Muskegon | 126 | 116 | 200 | 86 | 2,500 | ........ | 1 | 2 |
| Gagetown | Tuscola | 198 | 83 | 200 | 61 | 3,500 | ........ | 1 | 1 |
| Gaines | Genesee | 107 | 102 | 200 | 93 | 4,000 | ........ | 1 | 2 |
| Galesburg | Kalamazoo | 144 | 110 | 180 | 96 | 12,000 | ........ | 2 | 7 |
| Galien | Berrien | 186 | 135 | 180 | 81 | 5,000 | ........ | 1 | 3 |
| Gaylord | Otsego | 564 | 465 | 190 | 89 | 25,000 | 11,897 26 | 1 | 10 |
| Gladstone | Delta | 1,031 | 900 | 190 | 97 | 23,000 | 12,500 00 | 2 | 16 |
| Gladwin | Gladwin | 354 | 325 | 200 | 91 | 21,000 | 15,000 00 | 1 | 6 |
| Gobleville | Van Buren | 191 | 166 | 190 | 77 | 5,000 | ........ | 1 | 4 |
| Goodrich | Genesee | 82 | 68 | 200 | 80 | 2,000 | ........ | 1 | 1 |
| Graafschap | Allegan | 138 | 107 | 180 | 77 | 1,400 | ........ | ...... | 2 |
| Grand Haven | Ottawa | 1,619 | 1,185 | 200 | 97 | 90,000 | 30,000 00 | 1 | 30 |
| Grand Junction | Van Buren | 104 | 93 | 180 | 73 | 3,000 | ........ | 1 | 1 |
| Grand Ledge, 9 fr | Eaton | 298 | 241 | 197 | 90 | 20,000 | 6,000 00 | 2 | 8 |
| Grand Ledge, 11 fr | Eaton | 269 | 207 | 198 | 69 | 10,000 | ........ | 1 | 6 |
| Grand Rapids | Kent | 27,183 | 15,537 | 195 | 94 | 1,447,200 | 193,000 00 | 23 | 402 |
| Grandville | Kent | 241 | 206 | 200 | 74 | 10,000 | 800 00 | 1 | 5 |
| Grant | Newaygo | 135 | 101 | 180 | 80 | 1,200 | ........ | 1 | 1 |
| Grass Lake | Jackson | 208 | 176 | 200 | 96 | 12,000 | 700 00 | 1 | 7 |
| Grattan | Kent | 88 | 78 | 180 | 53 | 1,400 | ........ | 1 | 1 |
| Grayling | Crawford | 542 | 485 | 200 | 82 | 20,000 | 6,000 00 | 3 | 11 |
| Greenville | Montcalm | 933 | 864 | 200 | 78 | 33,000 | ........ | 2 | 20 |
| Grindstone City | Huron | 180 | 153 | 200 | 63 | 1,500 | 6,000 00 | 1 | 3 |
| Grosse Isle | Wayne | 185 | 120 | 200 | 87 | 9,000 | ........ | 1 | 3 |
| Grosse Pointe Tp. 1 | Wayne | 302 | 149 | 200 | 73 | 1,400 | 28,000 00 | 1 | 3 |
| Hadley | Lapeer | 105 | 92 | 190 | 90 | 3,000 | ........ | 1 | 2 |
| Hale | Iosco | 107 | 84 | 190 | 50 | 2,500 | 900 00 | 1 | 2 |
| Halfway | Macomb | 167 | 98 | 195 | 74 | 3,000 | ........ | ...... | 2 |

## TABLE XVI.—Continued.

| Aggregate number of months taught by all teachers. | | Total wages of teachers for the year. | | Average monthly wages of teachers. | | Amount paid for superintendence and instruction. | Total cost of school. | Number of non-resident pupils. | Tuition of non-resident pupils. |
|---|---|---|---|---|---|---|---|---|---|
| Men. | Women. | Men. | Women. | Men. | Women. | | | | |
| 9 | 126 | $1,300 00 | $5,527 50 | $144 44 | $43 87 | $6,827 50 | $10,248 24 | 22 | $169 05 |
| 10 | 40 | 850 00 | 1,350 00 | 85 00 | 33 75 | 2,200 00 | 3,244 05 | 27 | 182 27 |
| 10 | | 470 00 | | 47 00 | | 470 00 | 631 20 | 4 | |
| 9 | 9 | 405 00 | 288 00 | 45 00 | 32 00 | 693 00 | 932 95 | 4 | 11 00 |
| 23 | 9 | 1,075 00 | 387 00 | 46 74 | 43 00 | 1,462 00 | 1,646 38 | 12 | 32 00 |
| 9.5 | 38 | 570 00 | 1,140 00 | 60 00 | 30 00 | 1,710 00 | 2,891 33 | 25 | 241 35 |
| 9 | 27 | 660 00 | 1,035 00 | 73 33 | 38 33 | 1,695 00 | 3,010 44 | 1 | 1 25 |
| 17 | 8 | 760 00 | 240 00 | 44 70 | 30 00 | 1,000 00 | 5,168 50 | 1 | |
| 38 | 490 | 5,022 50 | 25,606 37 | 132 17 | 52 26 | 30,628 87 | 74,854 15 | 13 | 354 70 |
| 10 | 30 | 738 50 | 1,350 00 | 73 85 | 45 00 | 2,088 50 | 4,421 96 | | |
| | 17.9 | | 671 00 | | 37 48 | 671 00 | 997 42 | 1 | |
| | 29.2 | | 1,102 50 | | 37 70 | 1,102 50 | 2,057 09 | | |
| 10 | 110 | 1,250 00 | 5,100 00 | 125 00 | 46 37 | 6,350 00 | 8,184 36 | 21 | 166 75 |
| 10 | 40 | 700 00 | 998 10 | 70 00 | 24 95 | 1,698 10 | 2,146 43 | 15 | 104 40 |
| 9 | 42.5 | 600 00 | 1,498 50 | 66 67 | 35 26 | 2,098 50 | 2,534 41 | 12 | 49 80 |
| 9 | 36 | 765 00 | 1,440 00 | 85 00 | 40 00 | 2,205 00 | 2,956 65 | 25 | 150 00 |
| 20 | 130 | 1,900 00 | 5,160 00 | 95 00 | 39 69 | 7,060 00 | 13,367 39 | 61 | 630 40 |
| 9 | 18 | 495 00 | 720 00 | 55 00 | 40 00 | 1,215 00 | 1,556 67 | 8 | 37 00 |
| | 10 | | 448 00 | | 44 80 | 448 00 | 632 48 | 2 | |
| 9 | 9 | 342 00 | 261 40 | 38 00 | 29 04 | 603 40 | 883 73 | 3 | |
| | 20 | | 750 00 | | 37 50 | 750 00 | 967 42 | | |
| 10 | 40 | 700 00 | 1,560 00 | 70 00 | 39 00 | 2,260 00 | 2,817 03 | 19 | 150 78 |
| 50 | 750 | 5,150 00 | 33,529 65 | 103 00 | 44 70 | 38,679 65 | 68,922 48 | 85 | 1,942 91 |
| 20 | 40 | 1,200 00 | 1,375 00 | 60 00 | 34 38 | 2,575 00 | 4,185 85 | 32 | 322 56 |
| 9 | 9 | 360 00 | 270 00 | 40 00 | 30 00 | 630 00 | 1,146 39 | | |
| | 15 | | 540 00 | | 36 00 | 540 00 | 750 56 | | |
| 10 | 20 | 650 00 | 650 00 | 65 00 | 32 50 | 1,300 00 | 1,538 43 | 16 | 99 80 |
| 10 | 70 | 800 00 | 2,550 00 | 80 00 | 36 43 | 3,350 00 | 4,267 79 | 57 | 639 87 |
| 10 | 129.2 | 1,000 00 | 5,022 50 | 100 00 | 38 86 | 5,987 50 | 9,131 43 | 9 | 89 75 |
| 18 | 19.7 | 965 00 | 737 25 | 53 61 | 37 33 | 1,702 25 | 3,094 06 | 2 | 14 40 |
| 20 | 90 | 1,550 00 | 3,472 50 | 77 50 | 38 58 | 5,022 50 | 7,615 57 | 34 | 364 36 |
| 9 | 18 | 600 00 | 495 00 | 66 67 | 27 50 | 1,095 00 | 1,395 49 | 32 | 188 50 |
| 10 | 20 | 700 00 | 750 00 | 70 00 | 37 50 | 1,450 00 | 2,372 05 | 2 | 17 00 |
| 10 | 10 | 550 00 | 350 00 | 55 00 | 35 00 | 900 00 | 1,292 90 | 16 | 57 25 |
| 10 | 20 | 600 00 | 700 00 | 60 00 | 35 00 | 1,300 00 | 1,752 64 | 20 | 113 01 |
| 9 | 53 | 359 10 | 1,989 63 | 39 90 | 37 54 | 2,348 73 | 2,914 29 | 52 | 518 45 |
| 9 | 27 | 600 00 | 1,102 50 | 66 67 | 40 83 | 1,702 50 | 2,296 30 | 18 | 163 26 |
| 9.5 | 95 | 1,000 00 | 4,402 50 | 105 26 | 46 34 | 5,495 50 | 9,964 74 | 17 | 132 53 |
| 20 | 160 | 1,987 50 | 7,453 50 | 99 37 | 46 58 | 9,441 00 | 13,143 43 | | |
| 10 | 52 | 650 00 | 1,820 00 | 65 00 | 35 00 | 2,470 00 | 18,852 43 | 29 | 366 76 |
| 9.5 | 38 | 560 00 | 1,330 00 | 58 95 | 35 00 | 1,890 00 | 2,703 74 | 23 | 115 00 |
| 10 | 10 | 700 00 | 350 00 | 70 00 | 35 00 | 1,050 00 | 1,202 96 | 13 | 57 00 |
| | 18 | | 720 00 | | 40 00 | 720 00 | 1,001 59 | 12 | |
| 10 | 300 | 1,500 00 | 11,822 00 | 150 00 | 39 47 | 13,322 00 | 23,454 46 | 39 | 249 00 |
| 9 | 9 | 450 00 | 360 00 | 50 00 | 40 00 | 810 00 | 1,268 26 | 10 | 38 46 |
| 20 | 80 | 1,500 00 | 3,200 00 | 75 00 | 40 00 | 4,700 00 | 7,003 82 | 43 | 401 91 |
| 10 | 47.5 | 700 00 | 1,712 50 | 70 00 | 36 05 | 2,412 50 | 3,155 08 | 1 | 4 75 |
| 230 | 4,020 | 29,285 00 | 264,539 50 | 127 33 | 65 80 | 293,824 50 | 531,278 59 | 84 | 2,346 38 |
| 10 | 40 | 700 00 | 1,400 00 | 70 00 | 35 00 | 2,100 00 | 3,455 93 | 31 | 246 07 |
| 9 | 9 | 540 00 | 360 00 | 60 00 | 40 00 | 900 00 | 979 80 | 9 | 25 30 |
| 10 | 56.7 | 750 00 | 2,140 00 | 75 00 | 37 71 | 2,890 00 | 4,217 00 | 17 | 244 00 |
| 9 | 9 | 472 50 | 264 00 | 52 50 | 29 33 | 736 50 | 873 26 | 8 | 11 00 |
| 18.5 | 87 | 1,340 00 | 3,780 00 | 72 43 | 43 45 | 5,120 00 | 13,627 86 | 10 | |
| 20 | 200 | 1,850 00 | 8,400 00 | 92 50 | 42 00 | 10,250 00 | 14,533 35 | 34 | 1,038 26 |
| 10 | 30 | 600 00 | 950 00 | 60 00 | 31 67 | 1,550 00 | 4,540 66 | | |
| 10 | 30 | 625 00 | 1,350 00 | 62 50 | 45 00 | 1,975 00 | 3,134 39 | | |
| 10 | 30 | 550 00 | 1,200 00 | 55 00 | 40 00 | 1,750 00 | 7,490 56 | | |
| 9.5 | 19 | 600 00 | 641 25 | 63 16 | 33 75 | 1,241 25 | 1,738 12 | 28 | 322 37 |
| 2.5 | 15.5 | 147 50 | 537 50 | 59 00 | 34 68 | 685 00 | 2,059 02 | 2 | |
| | 19.5 | | 700 00 | | 38 97 | 760 00 | 1,212 23 | 3 | |

## TABLE XVI.—CONTINUED.

| Districts. | Counties. | Number of children between 5 and 20 years. | Number of children that attended school during the year. | Number of days school. | Percentage of attendance. | Estimated valuation of school property. | Total indebtedness. | Number of teachers employed. | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Men. | Women. |
| Hamilton | Allegan | [illegible] | [illegible] | [illegible] | [illegible] | $[illegible] | | 1 | [illegible] |
| Hamtramck Tp. 1 | Wayne | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | $[illegible] | | [illegible] |
| Hamtramck Tp. 3 | Wayne | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 1 | [illegible] |
| Hancock | Houghton | 1,[illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 4 | [illegible] |
| Hanover | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | [illegible] | 3 |
| Harbor Beach | Huron | 4[illegible] | 3[illegible] | [illegible] | [illegible] | 3[illegible] | [illegible] | [illegible] | 9 |
| Harbor Springs | Emmet | 7[illegible] | 4[illegible] | [illegible] | [illegible] | [illegible] | 5,000 00 | [illegible] | [illegible] |
| Harrietta | Wexford | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | [illegible] | [illegible] |
| Harrison | Clare | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | [illegible] | [illegible] |
| Harrisville | Alcona | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | 1 | [illegible] |
| Hart | Oceana | 4[illegible] | 4[illegible] | [illegible] | [illegible] | [illegible] | 2,000 00 | 3 | [illegible] |
| Hartford | Van Buren | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| Haslett | Ingham | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | 1 | [illegible] |
| Hastings | Barry | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 1,300 00 | 4 | [illegible] |
| Hematite Tp. | Iron | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | 3 | 4 |
| Hersey | Osceola | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | 1 | [illegible] |
| Hesperia | Newaygo | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | [illegible] | 5 |
| Highland Park | Wayne | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 1 | 5 |
| Hillsdale | Hillsdale | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 3 | [illegible] |
| Holland | Ottawa | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 3 | [illegible] |
| Holland Tp. 3 | Ottawa | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | .... | 1 | 1 |
| Holland Tp. 4 | Ottawa | [illegible] | [illegible] | [illegible] | [illegible] | 1,[illegible] | ....... | 1 | |
| Holland Tp. 6 | Ottawa | [illegible] | [illegible] | [illegible] | [illegible] | 1,[illegible] | | ... | [illegible] |
| Holland Tp. 9 | Ottawa | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | .... | 1 | 1 |
| Holland Tp. 10 fr | Ottawa | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 41 36 | 1 | .. |
| Holly | Oakland | [illegible] | [illegible] | [illegible] | [illegible] | 17,[illegible] | ...... | [illegible] | [illegible] |
| Holt | Ingham | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | .. | 1 | 4 |
| Holton | Muskegon | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | | [illegible] |
| Homer | Calhoun | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | 1 | [illegible] |
| Honor | Benzie | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | 1 | [illegible] |
| Hope | Midland | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | 1 | 1 |
| Horton | Jackson | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | 1 | [illegible] |
| Houghton | Houghton | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 50,000 00 | 6 | [illegible] |
| Howard City | Montcalm | 3[illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | 1 | [illegible] |
| Howell | Livingston | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | .... | 1 | [illegible] |
| Hubbardston | Ionia | [illegible] | [illegible] | [illegible] | [illegible] | 4,[illegible] | ... | 1 | [illegible] |
| Hudson | Lenawee | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | .. | [illegible] | 14 |
| Hudsonville | Ottawa | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | 1 | [illegible] |
| Hume Tp. 1 | Huron | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | ... | 1 | |
| Imlay City | Lapeer | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | 1 | [illegible] |
| Ionia | Ionia | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | .. | [illegible] | [illegible] |
| Iron Mountain | Dickinson | 3,[illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| Iron River | Iron | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 1 | [illegible] |
| Ironwood | Gogebic | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 3 | [illegible] |
| Ishpeming | Marquette | 4,[illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 5 | [illegible] |
| Ithaca | Gratiot | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 1 | [illegible] |
| Jackson | Jackson | 5,[illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 6 | [illegible] |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | 1 | 1 |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | | 9 |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 4,[illegible] | | 1 | 1 |
| Jonesville | Hillsdale | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | 1 | [illegible] |
| Kalamazoo | Kalamazoo | 7,[illegible] | 5,[illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 13 | [illegible] |
| Kalamazoo Tp. [illegible] | Kalamazoo | [illegible] | 5 | [illegible] | [illegible] | [illegible] | | | [illegible] |
| Kalkaska | Kalkaska | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 9,000 00 | 1 | 9 |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | | [illegible] |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | 1 | 1 |
| Kingsley | Grand Traverse | [illegible] | [illegible] | [illegible] | [illegible] | 3,[illegible] | .... | 1 | [illegible] |

## TABLE XVI.—CONTINUED.

| Aggregate number of months taught by all teachers. | | Total wages of teachers for the year. | | Average monthly wages of teachers. | | Amount paid for superintendence and instruction. | Total cost of school. | Number of non-resident pupils. | Tuition of non-resident pupils. |
|---|---|---|---|---|---|---|---|---|---|
| Men. | Women. | Men. | Women. | Men. | Women. | | | | |
| 9 | 9 | $405 00 | $315 00 | $45 00 | $35 00 | $720 00 | $927 24 | 4 | $11 50 |
| ........ | 20 | ........ | 750 00 | ........ | 37 50 | 750 00 | 1,078 75 | 6 | 9 20 |
| 10 | 10 | 550 00 | 450 00 | 55 00 | 45 00 | 1,000 00 | 8,575 51 | 5 | 7 50 |
| 40 | 220 | 4,550 00 | 11,566 25 | 113 75 | 52 58 | 16,116 25 | 24,181 66 | 20 | 796 58 |
| 9.5 | 28.5 | 600 00 | 1,050 00 | 63 16 | 36 84 | 1,650 00 | 2,216 07 | 29 | 335 00 |
| 10 | 80 | 800 00 | 3,137 50 | 80 00 | 39 22 | 3,937 50 | 6,055 03 | 12 | 97 50 |
| 9 | 84 | 950 00 | 3,831 00 | 105 55 | 45 61 | 4,781 00 | 17,796 36 | 3 | 28 85 |
| 9 | 18 | 495 00 | 630 00 | 55 00 | 35 00 | 1,125 00 | 1,691 19 | 2 | ........ |
| 18 | 18 | 935 00 | 675 00 | 51 94 | 37 50 | 1,610 00 | 2,022 09 | 11 | 78 00 |
| 9.5 | 28.5 | 570 00 | 1,140 00 | 60 00 | 40 00 | 1,710 00 | 2,223 28 | 6 | ........ |
| 27.2 | 106 | 1,706 88 | 4,175 24 | 62 64 | 39 39 | 5,882 12 | 7,337 59 | 57 | 382 20 |
| 9 | 77 | 800 00 | 2,942 50 | 88 89 | 38 21 | 3,742 50 | 5,942 55 | 58 | 544 62 |
| 9 | 9 | 450 00 | 315 00 | 50 00 | 35 00 | 765 00 | 985 52 | 4 | 18 00 |
| 39 | 185.2 | 2,900 00 | 10,083 30 | 74 40 | 54 43 | 12,983 30 | 18,582 33 | 56 | 744 66 |
| 10 | 40 | 750 45 | 2,210 00 | 75 04 | 55 25 | 2,960 45 | 4,769 05 | ........ | ........ |
| 9.5 | 28.5 | 570 00 | 1,107 50 | 60 00 | 28 86 | 1,677 50 | 2,207 74 | 13 | 131 00 |
| 9.5 | 35.4 | 650 00 | 1,281 00 | 68 42 | 36 18 | 1,931 00 | 2,632 86 | 16 | 172 50 |
| 10 | 35.7 | 1,000 00 | 1,851 50 | 100 00 | 51 79 | 2,851 50 | 19,196 98 | 9 | 107 38 |
| 28.5 | 247 | 2,900 00 | 10,940 00 | 101 75 | 44 29 | 13,840 00 | 28,467 35 | 83 | 978 00 |
| 30 | 380 | 3,310 00 | 16,352 14 | 110 33 | 43 03 | 19,662 14 | 33,006 46 | 32 | 218 00 |
| | 10 | 405 00 | 300 00 | 45 00 | 30 00 | 705 00 | 942 27 | ........ | ........ |
| 1 | ........ | 550 00 | ........ | 55 00 | ........ | 550 00 | 703 52 | ........ | ........ |
| ........ | 18 | ........ | 555 00 | ........ | 30 83 | 555 00 | 958 90 | ........ | ........ |
| 10 | 10 | 475 00 | 300 00 | 47 50 | 30 00 | 775 00 | 1,144 43 | ........ | ........ |
| 9 | ........ | 455 00 | ........ | 50 56 | ........ | 455 00 | 856 09 | 3 | 10 79 |
| 20 | 70 | 1,360 00 | 2,598 00 | 68 00 | 37 11 | 3,958 00 | 7,157 78 | 26 | 326 15 |
| 9 | 17.7 | 442 50 | 532 50 | 49 17 | 30 00 | 975 00 | 1,127 33 | 11 | 91 58 |
| ........ | 18 | ........ | 675 00 | ........ | 37 50 | 675 00 | 851 82 | 6 | 33 00 |
| 10 | 80 | 800 00 | 2,900 00 | 80 00 | 36 25 | 3,700 00 | 5,365 72 | 42 | 348 26 |
| 9 | 27 | 600 00 | 990 00 | 66 67 | 36 67 | 1,590 00 | 2,853 88 | 4 | 11 50 |
| 9 | 9 | 360 00 | 315 00 | 40 00 | 35 00 | 675 00 | 884 75 | 3 | 15 00 |
| 9.5 | 19 | 600 00 | 608 00 | 63 16 | 32 00 | 1,208 00 | 1,640 22 | 18 | 123 92 |
| 51 | 341 | 5,975 00 | 17,620 75 | 117 16 | 51 67 | 23,595 75 | 43,201 62 | 3 | 125 00 |
| 9.5 | 85 | 807 50 | 3,548 50 | 85 00 | 41 75 | 4,356 00 | 5,926 54 | 19 | 73 00 |
| 10 | 171 | 1,350 00 | 6,169 00 | 135 00 | 36 08 | 7,519 00 | 11,648 28 | 71 | 1,069 35 |
| 9 | 18 | 585 00 | 630 00 | 65 00 | 35 00 | 1,215 00 | 1,493 45 | 14 | 65 25 |
| 19 | 133 | 1,950 00 | 4,800 00 | 102 63 | 36 09 | 6,750 00 | 10,929 62 | 61 | 746 61 |
| 9 | 18 | 495 00 | 630 00 | 55 00 | 35 00 | 1,125 00 | 1,458 80 | 2 | 12 35 |
| 10 | ........ | 500 00 | ........ | 50 00 | ........ | 500 00 | 604 26 | ........ | ........ |
| 10 | 70 | 1,000 00 | 2,650 00 | 100 00 | 37 86 | 3,650 00 | 5,099 13 | 22 | 219 82 |
| 20 | 300 | 1,900 00 | 14,037 09 | 95 00 | 46 79 | 15,937 09 | 20,876 24 | 93 | 1,041 08 |
| 66.5 | 551 | 7,724 38 | 31,455 40 | 116 15 | 57 09 | 30,179 78 | 57,822 85 | ........ | ........ |
| 10 | 110 | 1,250 00 | 5,973 75 | 125 00 | 54 30 | 7,223 75 | 17,553 86 | 3 | ........ |
| 30 | 670 | 4,650 00 | 33,385 63 | 155 00 | 49 80 | 38,035 63 | 77,961 95 | 2 | ........ |
| 47.5 | 684 | 6,250 00 | 40,820 66 | 131 58 | 59 68 | 47,070 66 | 93,356 37 | ........ | ........ |
| 9.5 | 114 | 1,100 00 | 4,697 50 | 115 79 | 41 21 | 5,797 50 | 9,779 41 | 47 | 419 20 |
| 60 | 950 | 8,750 00 | 45,127 75 | 145 83 | 47 50 | 53,877 75 | 81,688 00 | 50 | 651 76 |
| 9 | 9 | 450 00 | 315 00 | 50 00 | 35 00 | 765 00 | 1,162 87 | ........ | ........ |
| ........ | 65.5 | ........ | 2,840 00 | ........ | 43 36 | 2,840 00 | 3,966 38 | 1 | ........ |
| 9 | 9 | 405 00 | 270 00 | 45 00 | 30 00 | 675 00 | 1,163 01 | ........ | ........ |
| 10 | 70 | 750 00 | 2,830 00 | 75 00 | 40 43 | 3,580 00 | 5,571 22 | 31 | 326 92 |
| 112 | 1,328 | 12,900 00 | 65,855 06 | 115 18 | 49 59 | 78,755 06 | 104,046 76 | 60 | 848 48 |
| ........ | 18 | ........ | 585 00 | ........ | 32 50 | 585 00 | 755 58 | ........ | ........ |
| 9 | 81 | 900 00 | 3,450 00 | 100 00 | 42 60 | 4,350 00 | 6,453 79 | 16 | 132 75 |
| ........ | 18 | ........ | 630 00 | ........ | 35 00 | 630 00 | 710 57 | ........ | ........ |
| 10 | 10 | 550 00 | 350 00 | 55 00 | 35 00 | 900 00 | 1,161 38 | ........ | ........ |
| 9 | 18 | 585 00 | 720 00 | 65 00 | 40 00 | 1,305 00 | 1,830 00 | 6 | 31 50 |

## TABLE XVI.—CONTINUED.

| Districts. | Counties. | Number of children between 5 and 20 years. | Number of children that attended school during the year. | Number of days school. | Percentage of attendance. | Estimated valuation of school property. | Total indebtedness. | Number of teachers employed. Men. | Number of teachers employed. Women. |
|---|---|---|---|---|---|---|---|---|---|
| Hamilton | Allegan | 116 | 91 | 180 | 82 | $1,000 | | 1 | 1 |
| Hamtramck Tp. 3 | Wayne | '135 | 74 | 200 | 67 | 2,500 | $1,000 00 | | 2 |
| Hamtramck Tp. 5 | Wayne | 244 | 78 | 200 | 81 | 9,600 | 8,000 00 | 1 | 1 |
| Hancock | Houghton | 2,022 | 1,162 | 199 | 97 | 100,000 | 12,000 00 | 4 | 22 |
| Hanover | Jackson | 116 | 119 | 190 | 97 | 7,000 | | 1 | 3 |
| Harbor Beach | Huron | 462 | 387 | 199 | 94 | 30,000 | 18,000 00 | 1 | 9 |
| Harbor Springs | Emmet | 708 | 420 | 180 | 89 | 16,000 | 8,000 00 | 1 | 11 |
| Harrietta | Wexford | 142 | 107 | 180 | 89 | 2,000 | | 1 | 2 |
| Harrison | Clare | 232 | 172 | 180 | 89 | 5,000 | | 2 | 2 |
| Harrisville | Alcona | 193 | 155 | 190 | 75 | 5,000 | | 1 | 3 |
| Hart | Oceana | 464 | 460 | 190 | 93 | 25,000 | 2,000 00 | 3 | 12 |
| Hartford | Van Buren | 381 | 303 | 180 | 93 | 15,000 | 10,000 00 | 1 | 9 |
| Haslett | Ingham | 99 | 88 | 180 | 79 | 3,000 | | 1 | 1 |
| Hastings | Barry | 803 | 612 | 195 | 96 | 40,000 | 1,300 00 | 4 | 19 |
| Hematite Tp | Iron | 182 | 163 | 200 | 80 | 7,775 | | 3 | 4 |
| Hersey | Osceola | 145 | 125 | 189 | 87 | 3,500 | | 1 | 3 |
| Hesperia | Newaygo | 168 | 168 | 180 | 72 | 6,000 | | 2 | 5 |
| Highland Park | Wayne | 281 | 129 | 200 | 83 | 25,000 | 18,000 00 | 1 | 5 |
| Hillsdale | Hillsdale | 1,150 | 1,043 | 190 | 96 | 100,000 | 48,960 00 | 3 | 26 |
| Holland | Ottawa | 2,886 | 1,866 | 197 | 96 | 90,000 | 16,000 00 | 3 | 38 |
| Holland Tp. 3 | Ottawa | 142 | 122 | 200 | 71 | 2,000 | | 1 | 1 |
| Holland Tp. 4 | Ottawa | 110 | 54 | 200 | 70 | 1,200 | | 1 | |
| Holland Tp. 6 | Ottawa | 134 | 101 | 180 | 78 | 1,500 | | | 2 |
| Holland Tp. 9 | Ottawa | 169 | 111 | 200 | 85 | 2,200 | | 1 | 1 |
| Holland Tp., 11 fr | Ottawa | 100 | 76 | 180 | 85 | 1,000 | 41 16 | 1 | |
| Holly | Oakland | 400 | 345 | 200 | 80 | 17,300 | | 2 | 10 |
| Holt | Ingham | 108 | 98 | 180 | 83 | 2,500 | | 1 | 4 |
| Holton | Muskegon | 109 | 81 | 180 | 63 | 2,000 | | | 2 |
| Homer | Calhoun | 253 | 226 | 190 | 90 | 15,000 | | 1 | 8 |
| Honor | Benzie | 199 | 186 | 180 | 71 | 3,000 | | 1 | 3 |
| Hope | Midland | 100 | 82 | 180 | 80 | 1,800 | | 1 | 1 |
| Horton | Jackson | 81 | 66 | 190 | 92 | 5,000 | | 1 | 2 |
| Houghton | Houghton | 1,920 | 1,245 | 200 | 94 | 130,000 | 50,000 00 | 6 | 38 |
| Howard City | Montcalm | 369 | 310 | 190 | 90 | 5,000 | | 1 | 9 |
| Howell | Livingston | 618 | 566 | 200 | 98 | 35,000 | | 1 | 20 |
| Hubbardston | Ionia | 136 | 81 | 180 | 87 | 4,500 | | 1 | 2 |
| Hudson | Lenawee | 605 | 468 | 190 | 95 | 25,680 | | 2 | 14 |
| Hudsonville | Ottawa | 172 | 146 | 180 | 81 | 2,500 | | 1 | 2 |
| Hume Tp. 1 | Huron | 79 | 73 | 192 | 58 | 800 | | 1 | |
| Imlay City | Lapeer | 392 | 320 | 200 | 90 | 8,000 | | 1 | 7 |
| Ionia | Ionia | 1,570 | 1,032 | 200 | 97 | 65,000 | | 2 | 30 |
| Iron Mountain | Dickinson | 3,294 | 2,555 | 190 | 95 | 165,000 | 34,000 00 | 7 | 58 |
| Iron River | Iron | 628 | 464 | 200 | 66 | 37,000 | 22,500 00 | 1 | 14 |
| Ironwood | Gogebic | 3,562 | 2,886 | 200 | 95 | 200,000 | 51,000 00 | 3 | 67 |
| Ishpeming | Marquette | 4,050 | 3,232 | 190 | 89 | 225,000 | 57,500 00 | 5 | 72 |
| Ithaca | Gratiot | 584 | 496 | 190 | 95 | 25,000 | 6,000 00 | 1 | 12 |
| Jackson | Jackson | 5,669 | 3,871 | 195 | 96 | 300,000 | 25,680 00 | 6 | 95 |
| Jamestown | Ottawa | 168 | 138 | 180 | 85 | 2,000 | | 1 | 1 |
| Jennings | Missaukee | 389 | 299 | 180 | 81 | 7,000 | | | 9 |
| Jerome | Hillsdale | 88 | 61 | 180 | 70 | 41,000 | | 1 | 1 |
| Jonesville | Hillsdale | 309 | 286 | 200 | 79 | 30,000 | | 1 | 7 |
| Kalamazoo | Kalamazoo | 7,807 | 5,523 | 186 | 95 | 610,000 | 133,000 00 | 13 | 137 |
| Kalamazoo Tp., 6 fr | Kalamazoo | 100 | 59 | 180 | 78 | 2,500 | | | 2 |
| Kalkaska | Kalkaska | 381 | 360 | 176 | 71 | 25,000 | 9,000 00 | 1 | 9 |
| Kendall | Van Buren | 45 | 58 | 180 | 65 | 1,200 | | | 2 |
| Kilmanagh | Huron | 112 | 100 | 200 | 60 | 2,000 | | 1 | 1 |
| Kingsley | Grand Traverse | 201 | 160 | 180 | 73 | 5,000 | | 1 | 2 |

## TABLE XVI.—CONTINUED.

| Aggregate number of months taught by all teachers. | | Total wages of teachers for the year. | | Average monthly wages of teachers. | | Amount paid for superintendence and instruction. | Total cost of school. | Number of non-resident pupils. | Tuition of non-resident pupils. |
|---|---|---|---|---|---|---|---|---|---|
| Men. | Women. | Men. | Women. | Men. | Women. | | | | |
| 9 | 9 | $405 00 | $315 00 | $45 00 | $35 00 | $720 00 | $927 24 | 4 | $11 50 |
| ........ | 20 | ........ | 750 00 | ........ | 37 50 | 750 00 | 1,078 75 | 6 | 9 20 |
| 10 | 10 | 550 00 | 450 00 | 55 00 | 45 00 | 1,000 00 | 8,575 51 | 5 | 7 50 |
| 40 | 220 | 4,550 00 | 11,566 25 | 113 75 | 52 58 | 16,116 25 | 24,181 66 | 20 | 796 58 |
| 9.5 | 28.5 | 600 00 | 1,050 00 | 63 16 | 36 84 | 1,650 00 | 2,216 07 | 29 | 335 00 |
| 10 | 80 | 800 00 | 3,137 50 | 80 00 | 39 22 | 3,937 50 | 6,055 03 | 12 | 97 50 |
| 9 | 84 | 950 00 | 3,831 00 | 105 55 | 45 61 | 4,781 00 | 17,796 36 | 3 | 28 85 |
| 9 | 18 | 495 00 | 630 00 | 55 00 | 35 00 | 1,125 00 | 1,691 19 | 2 | ........ |
| 18 | 18 | 935 00 | 675 00 | 51 94 | 37 50 | 1,610 00 | 2,022 09 | 11 | 78 00 |
| 9.5 | 28.5 | 570 00 | 1,140 00 | 60 00 | 40 00 | 1,710 00 | 2,223 28 | 6 | ........ |
| 27.2 | 106 | 1,706 88 | 4,175 24 | 62 64 | 39 39 | 5,882 12 | 7,337 59 | 57 | 382 20 |
| 9 | 77 | 800 00 | 2,942 50 | 88 89 | 38 21 | 3,742 50 | 5,942 55 | 58 | 544 62 |
| 9 | 9 | 450 00 | 315 00 | 50 00 | 35 00 | 765 00 | 985 52 | 4 | 18 00 |
| 39 | 185.2 | 2,900 00 | 10,083 30 | 74 40 | 54 43 | 12,983 30 | 18,582 33 | 56 | 744 6 |
| 10 | 40 | 750 45 | 2,210 00 | 75 04 | 55 25 | 2,960 45 | 4,769 05 | ........ | ........ |
| 9.5 | 28.5 | 570 00 | 1,107 50 | 60 00 | 28 86 | 1,677 50 | 2,207 74 | 13 | 131 0 |
| 9.5 | 35.4 | 650 00 | 1,281 00 | 68 42 | 36 18 | 1,931 00 | 2,632 86 | 16 | 172 5 |
| 10 | 35.7 | 1,000 00 | 1,851 50 | 100 00 | 51 79 | 2,851 50 | 19,196 98 | 9 | 107 3 |
| 28.5 | 247 | 2,900 00 | 10,940 00 | 101 75 | 44 29 | 13,840 00 | 28,467 35 | 83 | 978 00 |
| [illegible] | 380 | 3,310 00 | 16,352 14 | 110 33 | 43 03 | 19,662 14 | 33,006 46 | 32 | 218 60 |
| | 10 | 405 00 | 300 00 | 45 00 | 30 00 | 705 00 | 942 27 | ........ | ........ |
| 1 | ........ | 550 00 | ........ | 55 00 | ........ | 550 00 | 703 52 | ........ | ........ |
| ........ | 18 | ........ | 555 00 | ........ | 30 83 | 555 00 | 958 90 | ........ | ........ |
| 10 | 10 | 475 00 | 300 00 | 47 50 | 30 00 | 775 00 | 1,144 43 | ........ | ........ |
| 9 | ........ | 455 00 | ........ | 50 56 | ........ | 455 00 | 856 09 | 3 | 10 79 |
| 20 | 70 | 1,360 00 | 2,598 00 | 68 00 | 37 11 | 3,958 00 | 7,157 78 | 26 | 326 15 |
| 9 | 17.7 | 442 50 | 532 50 | 49 17 | 30 00 | 975 00 | 1,127 33 | 11 | 91 58 |
| ........ | 18 | ........ | 675 00 | ........ | 37 50 | 675 00 | 851 82 | 6 | 33 00 |
| 10 | 80 | 800 00 | 2,900 00 | 80 00 | 36 25 | 3,700 00 | 5,365 72 | 42 | 348 26 |
| 9 | 27 | 600 00 | 990 00 | 66 67 | 36 67 | 1,590 00 | 2,853 88 | 4 | 11 50 |
| 9 | 9 | 360 00 | 315 00 | 40 00 | 35 00 | 675 00 | 894 75 | 3 | 15 00 |
| 9.5 | 19 | 600 00 | 608 00 | 63 16 | 32 00 | 1,208 00 | 1,640 22 | 18 | 123 92 |
| 51 | 341 | 5,975 00 | 17,620 75 | 117 16 | 51 67 | 23,595 75 | 43,201 62 | 3 | 125 00 |
| 9.5 | 85 | 807 50 | 3,548 50 | 85 00 | 41 75 | 4,356 00 | 5,926 54 | 19 | 73 00 |
| 10 | 171 | 1,350 00 | 6,169 00 | 135 00 | 36 08 | 7,519 00 | 11,648 28 | 71 | 1,069 35 |
| 9 | 18 | 585 00 | 630 00 | 65 00 | 35 00 | 1,215 00 | 1,493 45 | 14 | 65 25 |
| 19 | 133 | 1,950 00 | 4,800 00 | 102 63 | 36 09 | 6,750 00 | 10,929 62 | 61 | 746 61 |
| 9 | 18 | 495 00 | 630 00 | 55 00 | 35 00 | 1,125 00 | 1,458 80 | 2 | 12 35 |
| 10 | ........ | 500 00 | ........ | 50 00 | ........ | 500 00 | 604 26 | ........ | ........ |
| 10 | 70 | 1,000 00 | 2,650 00 | 100 00 | 37 86 | 3,650 00 | 5,099 13 | 22 | 219 82 |
| 20 | 300 | 1,900 00 | 14,037 09 | 95 00 | 46 79 | 15,937 09 | 20,876 24 | 93 | 1,041 08 |
| 66.5 | 551 | 7,724 38 | 31,455 40 | 116 15 | 57 09 | 39,179 78 | 57,822 85 | ........ | ........ |
| 10 | 110 | 1,250 00 | 5,973 75 | 125 00 | 54 30 | 7,223 75 | 17,553 86 | 3 | ........ |
| 30 | 670 | 4,650 00 | 33,385 63 | 155 00 | 49 80 | 38,035 63 | 77,961 95 | 2 | ........ |
| 47.5 | 684 | 6,250 00 | 40,820 66 | 131 58 | 59 68 | 47,070 66 | 93,356 37 | ........ | ........ |
| 9.5 | 114 | 1,100 00 | 4,697 50 | 115 79 | 41 21 | 5,797 50 | 9,779 41 | 47 | 419 30 |
| 60 | 950 | 8,750 00 | 45,127 75 | 145 83 | 47 50 | 53,877 75 | 81,688 60 | 50 | 651 76 |
| 9 | 9 | 450 00 | 315 00 | 50 00 | 35 00 | 765 00 | 1,162 87 | ........ | ........ |
| ........ | 65.5 | ........ | 2,840 00 | ........ | 43 36 | 2,840 00 | 3,966 38 | 1 | ........ |
| 9 | 9 | 405 00 | 270 00 | 45 00 | 30 00 | 675 00 | 1,163 01 | ........ | ........ |
| 10 | 70 | 750 00 | 2,830 00 | 75 00 | 40 43 | 3,580 00 | 5,571 22 | 31 | 326 92 |
| 112 | 1,328 | 12,900 00 | 65,855 06 | 115 18 | 49 59 | 78,755 06 | 104,046 76 | 60 | 848 48 |
| ........ | 18 | ........ | 585 00 | ........ | 32 50 | 585 00 | 755 58 | ........ | ........ |
| 9 | 81 | 900 00 | 3,450 00 | 100 00 | 42 60 | 4,350 00 | 6,453 79 | 16 | 132 75 |
| ........ | 18 | ........ | 630 00 | ........ | 35 00 | 630 00 | 710 57 | ........ | ........ |
| 10 | 10 | 550 00 | 350 00 | 55 00 | 35 00 | 900 00 | 1,161 38 | ........ | ........ |
| 9 | 18 | 585 00 | 720 00 | 65 00 | 40 00 | 1,305 00 | 1,830 00 | 6 | 31 50 |

## TABLE XVI.—Continued.

| Districts. | Counties. | Number of children between 5 and 20 years. | Number of children that attended school during the year. | Number of days school. | Percentage of attendance. | Estimated valuation of school property. | Total indebtedness. | Number of teachers employed. | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Men. | Women. |
| Kingston | Tuscola | 145 | 133 | 200 | 83 | $7,000 | $4,600 00 | 1 | 1 |
| Kochville Tp. 6 | Saginaw | 113 | 78 | 180 | 68 | $ 1,700 | | 1 | 2 |
| Kraft | Wayne | 831 | 510 | 200 | 89 | 35,000 | 27,000 00 | 1 | 10 |
| Laingsburg | Shiawassee | 154 | 111 | 200 | 93 | 5,000 | | 1 | 5 |
| Lake Ann | Benzie | 89 | 60 | 180 | 80 | 3,500 | | 1 | 1 |
| Lake City | Missaukee | 311 | 258 | 180 | 94 | 18,000 | 10,000 00 | | 7 |
| Lake Linden | Houghton | 1,872 | 844 | 200 | 97 | 44,300 | | 2 | 27 |
| Lake Odessa | Ionia | 359 | 347 | 190 | 91 | 11,000 | | 3 | 8 |
| Lakeview | Montcalm | 290 | 301 | 190 | 83 | 3,000 | | 1 | 8 |
| L'Anse | Baraga | 565 | 431 | 200 | 81 | 16,391 | | 3 | 9 |
| Lansing | Ingham | 5,037 | 3,672 | 182 | 95 | 218,000 | | 6 | 83 |
| Lapeer | Lapeer | 648 | 544 | 197 | 85 | 30,000 | | 1 | 19 |
| Lawrence | Van Buren | 191 | 175 | 180 | 90 | 10,000 | | 1 | 7 |
| Lawton | Van Buren | 242 | 195 | 180 | 97 | 9,000 | | 1 | 5 |
| Leitch | Sanilac | 75 | 61 | 200 | 48 | 900 | | | 1 |
| Leland | Leelanau | 101 | 63 | 180 | 80 | 2,500 | | 1 | 1 |
| Lennon | Shiawassee | 104 | 89 | 200 | 90 | 2,000 | | 1 | 1 |
| Lenox | Macomb | 343 | 262 | 180 | 77 | 9,500 | 400 00 | 1 | 6 |
| Leonard | Oakland | 143 | 110 | 200 | 82 | 5,000 | | 1 | 2 |
| Le Roy | Osceola | 186 | 134 | 180 | 89 | 5,000 | 630 00 | 1 | 3 |
| Leslie | Ingham | 262 | 241 | 200 | 70 | 10,000 | | 1 | 5 |
| Levering | Emmet | 124 | 113 | 180 | 66 | 3,500 | 2,500 00 | 1 | 2 |
| Lexington | Sanilac | 161 | 148 | 200 | 96 | 10,000 | | 1 | 4 |
| Lincoln Tp. 4 | Berrien | 112 | 70 | 155 | 71 | 4,000 | 400 00 | 1 | 2 |
| Linden | Genesee | 173 | 131 | 194 | 71 | 6,000 | | 1 | 4 |
| Lisbon | Ottawa | 107 | 69 | 180 | 81 | 2,500 | | 1 | 1 |
| Litchfield | Hillsdale | 154 | 136 | 180 | 81 | 10,000 | | 1 | 4 |
| Lowell | Kent | 579 | 503 | 200 | 95 | 18,000 | | 1 | 11 |
| Lucas | Missaukee | 141 | 122 | 178 | 64 | 1,100 | | 2 | 1 |
| Ludington | Mason | 2,513 | 1,508 | 190 | 96 | 150,000 | 19,000 00 | 3 | 44 |
| Luther | Lake | 270 | 244 | 190 | 92 | 4,500 | | 1 | 5 |
| Lyons | Ionia | 154 | 138 | 180 | 90 | 3,000 | | 1 | 4 |
| Mackinac Island | Mackinac | 223 | 177 | 180 | 92 | 10,000 | | 1 | 3 |
| Mackinaw City | Cheboygan | 221 | 182 | 180 | 76 | 5,000 | | 2 | 2 |
| Mancelona | Antrim | 528 | 527 | 180 | 93 | 24,000 | 2,000 00 | 3 | 11 |
| Manchester | Washtenaw | 347 | 282 | 200 | 96 | 20,000 | | 1 | 8 |
| Manistee | Manistee | 4,073 | 2,157 | 200 | 96 | 132,000 | 9,000 00 | 4 | 70 |
| Manistique | Schoolcraft | 1,508 | 1,029 | 200 | 94 | 70,000 | 8,000 00 | 2 | 29 |
| Manton | Wexford | 379 | 318 | 180 | 89 | 30,000 | 8,000 00 | 1 | 8 |
| Maple Rapids | Clinton | 153 | 133 | 200 | 81 | 3,000 | | 1 | 3 |
| Marcellus | Cass | 230 | 212 | 180 | 95 | 18,000 | | 1 | 6 |
| Marine City | St. Clair | 1,233 | 714 | 200 | 93 | 59,000 | 19,000 00 | 2 | 16 |
| Marion | Osceola | 315 | 284 | 180 | 79 | 6,000 | | 1 | 4 |
| Marlette | Sanilac | 377 | 284 | 200 | 93 | 20,000 | 7,500 00 | 2 | 9 |
| Marquette | Marquette | 3,187 | 2,031 | 200 | 78 | 292,500 | 90,000 00 | 5 | 54 |
| Marshall | Calhoun | 972 | 701 | 197 | 96 | 125,000 | 14,000 00 | 3 | 25 |
| Martin | Allegan | 141 | 126 | 190 | 74 | 1,000 | 167 03 | 1 | 3 |
| Marysville | St. Clair | 138 | 97 | 190 | 85 | 1,000 | | 1 | 1 |
| Mason | Ingham | 406 | 381 | 200 | 95 | 40,000 | 21,500 00 | 1 | 16 |
| Matchwood Tp | Ontonagon | 155 | 121 | 180 | 84 | 10,450 | | | 8 |
| Mattawan | Van Buren | 103 | 92 | 180 | 82 | 6,000 | | 1 | 1 |
| Mayville | Tuscola | 240 | 230 | 200 | 99 | 10,000 | 5,000 00 | 1 | 4 |
| McBain | Missaukee | 247 | 221 | 180 | 80 | 5,000 | | 1 | 5 |
| McBride | Montcalm | 145 | 134 | 190 | 83 | 2,000 | | 1 | 2 |
| McMillan Tp | Luce | 610 | 576 | 200 | 72 | 15,000 | | 3 | 13 |
| McMillan Tp | Ontonagon | 142 | 111 | 180 | 76 | 6,600 | | 1 | 5 |
| Mecosta | Mecosta | 150 | 138 | 180 | 90 | 2,500 | | 1 | 2 |
| Memphis | Macomb | 191 | 160 | 192 | 87 | 5,000 | | 1 | 4 |
| Mendon | St. Joseph | 217 | 172 | 180 | 93 | 12,000 | 600 00 | 1 | 6 |

## TABLE XVI.—CONTINUED.

| Aggregate number of months taught by all teachers. | | Total wages of teachers for the year. | | Average monthly wages of teachers. | | Amount paid for superintendence and instruction. | Total cost of school. | Number of non-resident pupils. | Tuition of non-resident pupils. |
|---|---|---|---|---|---|---|---|---|---|
| Men. | Women. | Men. | Women. | Men. | Women. | | | | |
| 10 | 10 | $550 00 | $300 00 | $55 00 | $30 00 | $850 00 | $1,624 44 | 24 | $107 80 |
| 5 | 13 | 225 00 | 430 00 | 45 00 | 33 08 | 655 00 | 946 27 | ........ | .......... |
| 10 | 90 | 850 00 | 3,271 25 | 85 00 | 36 35 | 4,121 25 | 21,380 65 | 13 | 52 80 |
| 10 | 40 | 600 00 | 1,400 00 | 60 00 | 35 00 | 2,000 00 | 2,436 76 | 16 | 187 73 |
| 9 | 9 | 450 00 | 315 00 | 50 00 | 35 00 | 765 00 | 1,066 23 | 3 | 4 50 |
| ........ | 54 | ............ | 2,210 00 | ........ | 40 93 | 2,210 00 | 4,377 65 | 9 | 32 00 |
| 20 | 262 | 2,650 00 | 15,920 00 | 132 50 | 60 76 | 18,570 00 | 28,428 35 | 18 | 774 00 |
| 19 | 74.5 | 1,368 42 | 2,607 50 | 72 02 | 35 00 | 3,975 92 | 5,641 22 | 37 | 413 55 |
| 9.5 | 66 | 1,000 00 | 2,327 50 | 105 26 | 35 27 | 3,327 50 | 4,173 21 | 39 | 296 47 |
| 30 | 89.3 | 2,700 00 | 4,270 75 | 90 00 | 47 80 | 6,970 75 | 10,103 80 | ........ | .......... |
| 57 | 788.5 | 6,725 00 | 42,374 00 | 117 98 | 53 74 | 49,099 00 | 88,871 74 | 56 | 676 25 |
| 10 | 190 | 1,180 00 | 8,410 00 | 118 00 | 44 26 | 9,590 00 | 13,652 95 | 37 | 595 51 |
| 9 | 63 | 810 00 | 2,378 00 | 90 00 | 37 75 | 3,188 00 | 4,176 60 | 46 | 382 30 |
| 9 | 45 | 800 00 | 1,665 00 | 88 89 | 37 00 | 2,465 00 | 3,419 65 | 40 | 251 20 |
| ........ | 10 | ............ | 450 00 | ........ | 45 00 | 450 00 | 572 31 | 3 | .......... |
| 9 | 9 | 585 00 | 270 00 | 65 00 | 30 00 | 855 00 | 1,170 37 | 1 | .......... |
| 10 | 10 | 500 00 | 350 00 | 50 00 | 35 00 | 850 00 | 950 39 | 9 | 59 00 |
| 9 | 54 | 900 00 | 2,160 00 | 100 00 | 40 00 | 3,060 00 | 4,382 68 | 23 | 221 63 |
| 10 | 20 | 525 00 | 600 00 | 52 50 | 30 00 | 1,125 00 | 1,685 78 | 8 | 20 00 |
| 9 | 27 | 540 00 | 1,080 00 | 60 00 | 40 00 | 1,620 00 | 2,357 34 | 15 | 55 25 |
| 10 | 50 | 1,000 00 | 2,100 00 | 100 00 | 42 00 | 3,100 00 | 4,186 03 | 51 | 449 30 |
| 9 | 18 | 540 00 | 810 00 | 60 00 | 45 00 | 1,350 00 | 1,839 98 | 4 | 15 00 |
| 10 | 40 | 700 00 | 1,650 00 | 70 00 | 41 25 | 2,350 00 | 3,198 59 | 10 | 74 55 |
| 6 | 7.7 | 390 00 | 271 25 | 65 00 | 35 00 | 661 25 | 888 03 | ........ | .......... |
| 10 | 37.8 | 650 00 | 1,282 50 | 65 00 | 34 34 | 1,932 50 | 5,073 66 | 30 | 157 50 |
| 9 | 9 | 585 00 | 315 00 | 65 00 | 35 00 | 900 00 | 1,182 08 | 5 | 25 00 |
| 9 | 36 | 600 00 | 1,350 00 | 66 67 | 37 50 | 1,950 00 | 2,760 53 | 38 | 359 50 |
| 10 | 110 | 1,300 00 | 3,802 50 | 130 00 | 34 57 | 5,102 50 | 8,870 24 | 30 | 273 15 |
| 9 | 9 | 430 50 | 315 00 | 47 83 | 35 00 | 745 50 | 1,087 33 | 7 | .......... |
| 28.5 | 418 | 3,420 00 | 19,813 63 | 120 00 | 47 40 | 23,233 63 | 47,249 89 | 28 | 331 97 |
| 9.5 | 40.5 | 600 00 | 1,301 25 | 63 16 | 32 13 | 1,901 25 | 3,529 09 | ........ | .......... |
| 9 | 36 | 600 00 | 1,345 50 | 66 67 | 37 36 | 1,945 50 | 3,071 63 | 12 | 71 00 |
| 9 | 27 | 778 50 | 1,226 50 | 86 50 | 45 43 | 2,005 00 | 2,837 31 | ........ | .......... |
| 18 | 18 | 1,080 00 | 720 00 | 60 00 | 40 00 | 1,800 00 | 2,362 58 | 2 | .......... |
| 27 | 99 | 1,755 00 | 3,780 00 | 65 00 | 38 19 | 5,535 00 | 9,154 88 | 14 | 65 05 |
| 10 | 80 | 1,000 00 | 2,700 00 | 100 00 | 33 75 | 3,700 00 | 5,354 93 | 31 | 413 00 |
| 40 | 700 | 4,750 00 | 32,589 92 | 118 75 | 46 56 | 37,339 92 | 52,255 03 | 39 | 706 80 |
| 20 | 290 | 3,302 50 | 13,393 75 | 165 12 | 46 18 | 16,696 25 | 26,954 01 | 13 | 206 45 |
| 9 | 72 | 800 00 | 2,655 00 | 88 89 | 36 88 | 3,455 00 | 8,767 04 | 35 | 184 60 |
| 10 | 30 | 700 00 | 1,100 00 | 70 00 | 36 67 | 1,800 00 | 2,149 73 | 18 | 204 20 |
| 9 | 54 | 800 00 | 2,340 00 | 88 89 | 43 33 | 3,140 00 | 3,951 97 | 49 | 404 70 |
| 20 | 160 | 1,900 00 | 6,305 00 | 95 00 | 39 41 | 8,205 00 | 14,277 43 | 18 | 156 20 |
| 9 | 36 | 657 00 | 1,287 00 | 73 00 | 35 75 | 1,944 00 | 3,353 93 | 13 | 80 63 |
| 20 | 90 | 1,450 00 | 2,712 50 | 72 50 | 30 14 | 4,162 50 | 6,220 51 | 59 | 504 93 |
| 50 | 540 | 5,250 00 | 28,737 50 | 105 00 | 53 22 | 33,987 50 | 53,607 47 | 13 | .......... |
| 30 | 247.5 | 3,155 45 | 10,662 50 | 105 18 | 43 08 | 13,817 95 | 19,769 98 | 63 | 1,027 57 |
| 9.5 | 28.5 | 712 50 | 1,187 50 | 75 00 | 41 32 | 1,900 00 | 2,684 78 | 14 | 58 25 |
| 9 | 9 | 450 00 | 270 00 | 50 00 | 30 00 | 720 00 | 1,037 80 | 3 | 6 00 |
| 10 | 128 | 1,200 00 | 5,640 40 | 120 00 | 44 07 | 6,840 40 | 10,359 73 | 39 | 330 70 |
| ........ | 72 | ............ | 3,420 00 | ........ | 47 50 | 3,420 00 | 6,837 43 | ........ | .......... |
| 9 | 9 | 450 00 | 270 00 | 50 00 | 30 00 | 720 00 | 1,126 19 | 3 | 9 60 |
| 10 | 40 | 700 00 | 1,545 00 | 70 00 | 38 62 | 2,245 00 | 3,623 74 | 18 | 116 00 |
| 9 | 45 | 585 00 | 1,845 00 | 65 00 | 41 00 | 2,430 00 | 3,414 20 | 7 | 37 75 |
| 9.5 | 19 | 650 00 | 665 00 | 68 42 | 35 00 | 1,315 00 | 1,742 45 | 17 | 140 14 |
| 30 | 130 | 2,250 00 | 6,755 00 | 75 00 | 51 96 | 9,005 00 | 12,697 31 | ........ | .......... |
| 9 | 45 | 675 00 | 2,070 00 | 75 00 | 46 00 | 2,745 00 | 5,819 91 | ........ | .......... |
| 9 | 18 | 540 00 | 585 00 | 60 00 | 32 50 | 1,125 00 | 1,435 08 | 2 | .......... |
| 10 | 40 | 650 00 | 1,600 00 | 65 00 | 40 00 | 2,250 00 | 2,891 13 | 30 | 299 24 |
| 9 | 54 | 810 00 | 2,034 00 | 90 00 | 37 67 | 2,844 00 | 4,857 89 | 31 | 292 25 |

## TABLE XVI.—Continued.

| Districts. | Counties. | Number of children between 5 and 20 years. | Number of children that attended school during the year. | Number of days school. | Percentage of attendance. | Estimated valuation of school property. | Total indebtedness. | Number of teachers employed. | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Men. | Women. |
| Orion | Oakland | 199 | 193 | 200 | 86 | $10,000 | $1,105 00 | 1 | 5 |
| Ortonville | Oakland | 105 | 104 | 200 | 88 | 1,000 | ............ | 2 | 1 |
| Osceola Tp. 1 | Houghton | 2,032 | 1,434 | 200 | 91 | 15,000 | ............ | 2 | 36 |
| Oscoda | Iosco | 387 | 282 | 180 | 92 | 3,000 | ............ | 2 | 5 |
| Osseo | Hillsdale | 82 | 59 | 180 | 86 | 3,000 | ............ | 1 | 1 |
| Otisville | Genesee | 127 | 114 | 200 | 72 | 2,500 | ............ | 1 | 2 |
| Otsego | Allegan | 651 | 539 | 180 | 93 | 37,500 | 12,750 00 | 2 | 18 |
| Otter Lake | Lapeer | 77 | 62 | 180 | 74 | 1,100 | ............ | 2 | ........ |
| Otto | Sanilac | 85 | 77 | 200 | 48 | 800 | ............ | 1 | ........ |
| Overisel | Allegan | 103 | 84 | 177 | 86 | 2,000 | ............ | 1 | 1 |
| Ovid | Clinton | 319 | 293 | 200 | 94 | 15,000 | ............ | 2 | 8 |
| Owosso | Shiawassee | 2,477 | 1,817 | 198 | 95 | 170,000 | 31,000 00 | 4 | 45 |
| Oxford | Oakland | 254 | 187 | 200 | 95 | 20,000 | ............ | 2 | 6 |
| Palmyra | Lenawee | 89 | 74 | 180 | 85 | 2,500 | ............ | 1 | 1 |
| Palo | Ionia | 91 | 77 | 200 | 94 | 4,000 | 76 98 | 2 | 3 |
| Paris Tp. 1 | Kent | 130 | 99 | 177 | 67 | 1,000 | ............ | ...... | 2 |
| Parma | Jackson | 171 | 140 | 193 | 96 | 12,000 | ............ | 1 | 5 |
| Paw Paw | Van Buren | 396 | 308 | 190 | 90 | 50,000 | 3,000 00 | 3 | 7 |
| Pelkton | Emmet | 312 | 253 | 180 | 70 | 4,700 | 3,000 00 | 2 | 5 |
| Pentwater | Oceana | 304 | 325 | 180 | 98 | 10,000 | ............ | 1 | 7 |
| Perry | Shiawassee | 195 | 173 | 200 | 76 | 10,000 | 5,000 00 | 1 | 5 |
| Petersburg | Monroe | 235 | 161 | 169 | 94 | 8,000 | ............ | 3 | 3 |
| Petoskey | Emmet | 1,552 | 1,220 | 190 | 94 | 60,500 | 18,000 00 | 4 | 29 |
| Pewamo | Ionia | 145 | 116 | 180 | 80 | 8,000 | 2,761 07 | 1 | 2 |
| Pickford | Chippewa | 167 | 130 | 200 | 77 | 4,500 | 3,000 00 | 1 | 1 |
| Pierson | Montcalm | 113 | 87 | 180 | 66 | 1,000 | ............ | 1 | 1 |
| Pigeon | Huron | 339 | 230 | 200 | 66 | 3,500 | ............ | 1 | 4 |
| Pinckney | Livingston | 129 | 128 | 200 | 80 | 7,000 | 50 00 | 1 | 4 |
| Pinconning | Bay | 833 | 296 | 200 | 85 | 18,000 | 12,600 00 | ...... | 5 |
| Pine Run | Genesee | 63 | 50 | 180 | 70 | 800 | ............ | 1 | ........ |
| Pinnebog | Huron | 126 | 124 | 200 | 87 | 2,000 | ............ | 1 | 1 |
| Pittsford | Hillsdale | 126 | 114 | 190 | 77 | 10,000 | ............ | 2 | 2 |
| Plainwell | Allegan | 321 | 272 | 196 | 97 | 15,000 | ............ | 1 | 9 |
| Plymouth | Wayne | 524 | 381 | 200 | 93 | 22,000 | ............ | 1 | 10 |
| Pontiac | Oakland | 2,352 | 1,936 | 195 | 94 | 280,000 | 75,000 00 | 3 | 48 |
| Port Austin | Huron | 229 | 175 | 200 | 81 | 3,500 | 3,000 00 | 1 | 4 |
| Port Hope | Huron | 168 | 103 | 200 | 89 | 1,500 | ............ | 1 | 2 |
| Port Huron | St. Clair | 5,569 | 3,146 | 180 | 94 | 665,000 | ............ | 4 | 81 |
| Portland | Ionia | 453 | 340 | 190 | 92 | 25,000 | 5,035 00 | ...... | 13 |
| Port Sanilac | Sanilac | 110 | 105 | 180 | 80 | 2,000 | ............ | ...... | 3 |
| Potterville | Eaton | 145 | 149 | 180 | 80 | 2,500 | ............ | 1 | 3 |
| Prescott | Ogemaw | 146 | 106 | 180 | 66 | 1,000 | ............ | ...... | 2 |
| Provemont | Leelanau | 113 | 91 | 120 | 91 | ............ | ............ | ...... | 2 |
| Quincy | Branch | 331 | 244 | 192 | 94 | 16,000 | 6,173 27 | 1 | 7 |
| Ravenna | Muskegon | 166 | 164 | 180 | 83 | 3,000 | ............ | 2 | 2 |
| Reading | Hillsdale | 236 | 213 | 186 | 84 | 10,000 | ............ | 1 | 6 |
| Reed City | Osceola | 528 | 474 | 190 | 77 | 26,000 | 400 00 | 3 | 12 |
| Remus | Mecosta | 156 | 121 | 180 | 80 | 4,500 | 1,750 00 | 1 | 2 |
| Republic Tp | Marquette | 862 | 627 | 200 | 78 | 17,000 | ............ | 1 | 16 |
| Richland | Kalamazoo | 83 | 76 | 180 | 90 | 4,500 | ............ | 1 | 3 |
| Ridgeway | Lenawee | 83 | 58 | 185 | 91 | 2,000 | ............ | 2 | 1 |
| Riverdale | Gratiot | 114 | 103 | 180 | 67 | 2,000 | ............ | 1 | 2 |
| River Rouge | Wayne | 1,055 | 825 | 200 | 93 | 90,000 | 62,000 00 | 2 | 18 |
| Rochester | Oakland | 372 | 279 | 200 | 80 | 15,000 | ............ | 1 | 6 |
| Rockford | Kent | 205 | 196 | 180 | 83 | 22,000 | 1,750 00 | 1 | 5 |
| Rockland Tp | Ontonagon | 495 | 405 | 200 | 85 | 27,000 | 14,000 00 | 3 | 9 |
| Rockwood | Wayne | 108 | 98 | 200 | 72 | 3,000 | ............ | 1 | 1 |
| Rogers | Presque Isle | 304 | 193 | 180 | 83 | 7,500 | 4,586 00 | ...... | 5 |
| Romeo | Macomb | 388 | 293 | 200 | 97 | 28,985 | ............ | 2 | 10 |

## TABLE XVI.—CONTINUED.

| Aggregate number of months taught by all teachers. | | Total wages of teachers for the year. | | Average monthly wages of teachers. | | Amount paid for superintendence and instruction. | Total cost of school. | Number of non-resident pupils. | Tuition of non-resident pupils. |
|---|---|---|---|---|---|---|---|---|---|
| Men. | Women. | Men. | Women. | Men. | Women. | | | | |
| 10 | 50 | $700 00 | $1,675 00 | $70 00 | $33 50 | $2,375 00 | $3,547 40 | 15 | $93 65 |
| 20 | 10 | 950 00 | 280 00 | 47 50 | 28 00 | 1,230 00 | 1,626 06 | 26 | 210 00 |
| 20 | 360 | 2,600 00 | 17,028 05 | 130 00 | 47 30 | 19,628 05 | 35,191 22 | ........ | .......... |
| 18 | 43 | 990 00 | 1,344 00 | 55 00 | 31 26 | 2,334 00 | 2,857 45 | ........ | .......... |
| 9 | 9 | 540 00 | 360 00 | 60 00 | 40 00 | 900 00 | 1,615 01 | 4 | 42 00 |
| 10 | 20 | 600 00 | 000 00 | 60 00 | 30 00 | 1,200 00 | 1,692 82 | 21 | 180 53 |
| 9 | 130 | 1,211 08 | 5,147 71 | 134 56 | 39 60 | 6,358 79 | 9,850 94 | 31 | 337 58 |
| 18 | .......... | 652 50 | .............. | 36 25 | ......... | 652 50 | 875 68 | 10 | 8 00 |
| 10 | .......... | 500 00 | .............. | 50 00 | ......... | 500 00 | 585 70 | ........ | .......... |
| 9 | 9 | 360 00 | 207 00 | 40 00 | 23 00 | 567 00 | 765 51 | 7 | 18 00 |
| 20 | 80 | 1,600 00 | 2,870 00 | 80 00 | 35 88 | 4,470 00 | 6,326 79 | 40 | 451 25 |
| 40 | 450 | 4,780 00 | 21,272 83 | 119 50 | 47 27 | 26,052 83 | 49,900 35 | 44 | 487 16 |
| 10 | 00 | 1,325 00 | 2,566 50 | 132 50 | 42 77 | 3,891 50 | 5,233 89 | 21 | 208 70 |
| 9 | 9 | 405 00 | 315 00 | 45 00 | 35 00 | 720 00 | 986 86 | 4 | 22 00 |
| 10 | 29 | 500 00 | 827 00 | 50 00 | 28 52 | 1,327 00 | 1,899 94 | 36 | 267 50 |
| ........ | 18 | ............ | 639 00 | ........ | 35 50 | 639 00 | 906 05 | 1 | 9 00 |
| 10 | 50 | 650 00 | 1,630 00 | 65 00 | 32 60 | 2,280 00 | 2,975 83 | 21 | 204 50 |
| 28.5 | 66.5 | 2,150 00 | 2,815 50 | 75 44 | 42 34 | 4,965 50 | 10,043 83 | 88 | 1,017 67 |
| 9.7 | 34.3 | 630 00 | 1,490 00 | 64 62 | 43 50 | 2,120 00 | 2,873 20 | ........ | .......... |
| 9 | 63 | 900 00 | 2,250 00 | 100 00 | 35 71 | 3,150 00 | 4,416 91 | 16 | 60 50 |
| 10 | 50 | 800 00 | 1,850 00 | 80 00 | 37 00 | 2,650 00 | 3,711 07 | 20 | 124 50 |
| 18 | 27 | 945 00 | 945 00 | 52 50 | 35 00 | 1,890 00 | 2,447 72 | 17 | 176 44 |
| 38 | 275.5 | 3,300 00 | 12,708 58 | 86 84 | 46 13 | 16,008 58 | 24,815 51 | 25 | 143 75 |
| 9 | 18 | 540 00 | 603 00 | 60 00 | 33 50 | 1,143 00 | 1,714 56 | 12 | 20 60 |
| 10 | 10 | 600 00 | 400 00 | 00 00 | 40 00 | 1,000 00 | 1,503 64 | 1 | 8 00 |
| 9 | 9 | 387 00 | 288 00 | 43 00 | 32 00 | 675 00 | 923 07 | 5 | 16 40 |
| 10 | 36 | 750 00 | 1,260 00 | 75 00 | 35 00 | 2,010 00 | 2,724 85 | 12 | 65 35 |
| 10 | 40 | 700 00 | 1,400 00 | 70 00 | 35 00 | 2,100 00 | 3,207 95 | 15 | 181 25 |
| ........ | 50 | ............ | 2,240 00 | ....... | 44 80 | 2,240 00 | 5,123 16 | 10 | 49 10 |
| 9 | .......... | 360 00 | .............. | 40 00 | ......... | 360 00 | 439 17 | ........ | .......... |
| 10 | 10 | 500 00 | 320 00 | 50 00 | 32 00 | 820 00 | 939 29 | 6 | 39 75 |
| 19 | 19 | 1,045 00 | 665 00 | 55 00 | 35 00 | 1,710 00 | 2,415 41 | 26 | 237 95 |
| 9.5 | 85.5 | 1,150 00 | 3,220 50 | 121 05 | 37 67 | 4,370 50 | 6,242 49 | 45 | 613 30 |
| 10 | 100 | 1,100 00 | 4,200 00 | 110 00 | 42 00 | 5,300 00 | 13,264 46 | 39 | 454 78 |
| 30 | 450 | 4,400 00 | 21,374 31 | 146 67 | 47 50 | 25,774 31 | 84,552 73 | 56 | 852 28 |
| 10 | 37 | 750 00 | 1,600 00 | 75 00 | 43 24 | 2,350 00 | 3,218 04 | 24 | 67 15 |
| 10 | 20 | 600 00 | 650 00 | 60 00 | 32 50 | 1,250 00 | 1,546 68 | 4 | 28 65 |
| 36 | 729 | 5,450 00 | 36,658 38 | 151 39 | 50 28 | 42,108 38 | 70,727 62 | 18 | 124 50 |
| ........ | 123.5 | ............ | 5,450 00 | ........ | 44 13 | 5,450 00 | 15,511 16 | 47 | 562 40 |
| ........ | 27 | ............ | 990 00 | ........ | 36 67 | 990 00 | 1,522 52 | 6 | 10 80 |
| 9 | 19.8 | 540 00 | 780 25 | 60 00 | 39 46 | 1,320 25 | 2,033 97 | 8 | 62 00 |
| ........ | 18 | ............ | 675 00 | ........ | 37 50 | 675 00 | 807 88 | 4 | .......... |
| ........ | 12 | ............ | 540 00 | ........ | 45 00 | 540 00 | 722 62 | ........ | .......... |
| 10 | 70 | 1,000 00 | 2,725 00 | 100 00 | 38 93 | 3,725 00 | 5,722 29 | 33 | 334 62 |
| 9 | 18 | 565 00 | 675 00 | 62 78 | 37 50 | 1,240 00 | 1,699 32 | 14 | 61 50 |
| 9.5 | 57 | 1,100 00 | 2,156 50 | 115 79 | 37 83 | 3,256 50 | 5,025 28 | 61 | 674 40 |
| 28.5 | 114 | 2,400 00 | 4,722 50 | 84 21 | 41 42 | 7,122 50 | 8,714 43 | 20 | 256 00 |
| 9 | 18 | 540 00 | 540 00 | 60 00 | 30 00 | 1,080 00 | 3,388 05 | 4 | 10 50 |
| 10 | 140 | 1,300 00 | 6,749 50 | 130 00 | 48 21 | 8,049 50 | 13,012 48 | ........ | .......... |
| 9 | 27 | 630 00 | 990 00 | 70 00 | 36 67 | 1,620 00 | 2,294 09 | 17 | 189 05 |
| 9.2 | 9.3 | 485 60 | 334 00 | 52 50 | 36 11 | 819 60 | 1,121 35 | 6 | 35 35 |
| 9 | 14.5 | 450 00 | 580 00 | 50 00 | 40 00 | 1,030 00 | 1,203 83 | 2 | 41 50 |
| 20 | 180 | 1,700 00 | 7,603 01 | 85 00 | 42 24 | 9,303 01 | 16,485 30 | 1 | 7 00 |
| 10 | 60 | 1,000 00 | 2,375 00 | 100 00 | 39 58 | 3,375 00 | 4,212 91 | 27 | 221 45 |
| 9 | 45 | 750 00 | 1,800 00 | 83 33 | 40 00 | 2,400 00 | 5,582 34 | 34 | 265 24 |
| 20 | 90 | 1,750 00 | 4,802 50 | 87 50 | 53 36 | 6,552 50 | 17,340 44 | ........ | .......... |
| 10 | 10 | 500 00 | 300 00 | 50 00 | 30 00 | 800 00 | 1,087 50 | 6 | 12 00 |
| ........ | 45 | ............ | 2,072 50 | ........ | 46 06 | 2,072 50 | 2,829 43 | ........ | .......... |
| 10.9 | 99.1 | 1,395 00 | 3,534 50 | 127 98 | 35 66 | 4,929 50 | 7,533 81 | 37 | 460 57 |

## TABLE XVI.—CONTINUED.

| Districts. | Counties. | Number of children between 5 and 20 years. | Number of children that attended school during the year. | Number of days school. | Percentage of attendance. | Estimated valuation of school property. | Total indebtedness. | Number of teachers employed. | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Men. | Women. |
| Romulus | Wayne | 100 | 78 | 180 | 70 | $2,000 | $200 00 | 1 | 1 |
| Roscommon | Roscommon | 189 | 122 | 180 | 85 | 3,000 | 3,000 00 | 1 | 2 |
| Rose City | Ogemaw | 292 | 203 | 190 | 87 | 5,000 | 2,500 00 | 1 | 4 |
| Royal Oak | Oakland | 317 | 244 | 200 | 84 | 15,000 | 10,500 00 | 1 | 6 |
| Saganing | Arenac | 137 | 101 | 180 | 81 | 1,800 | ............ | 1 | 1 |
| Saginaw | Saginaw | 8,296 | 4,883 | 192 | 96 | 457,853 | 35,000 00 | 17 | 143 |
| Saginaw, W. S | Saginaw | 5,722 | 3,099 | 196 | 82 | 305,085 | 35,000 00 | 5 | 77 |
| St. Charles | Saginaw | 560 | 538 | 200 | 94 | 16,000 | ............ | 1 | 8 |
| St. Clair | St. Clair | 759 | 620 | 200 | 93 | 35,000 | ............ | 1 | 15 |
| St. Ignace | Mackinac | 629 | 386 | 178 | 93 | 15,000 | 8,875 00 | 3 | 8 |
| St. Johns | Clinton | 867 | 854 | 200 | 96 | 50,000 | ............ | 2 | 22 |
| St. Joseph | Berrien | 1,519 | 1,144 | 186 | 97 | 80,000 | 10,000 00 | 4 | 28 |
| St. Louis | Gratiot | 665 | 577 | 200 | 92 | 30,000 | 13,000 00 | 1 | 16 |
| Salem | Washtenaw | 65 | 57 | 180 | 61 | 1,200 | ............ | 1 | 1 |
| Saline | Washtenaw | 201 | 177 | 200 | 94 | 25,000 | 50 00 | 1 | 6 |
| Sand Lake | Kent | 132 | 116 | 170 | 81 | 2,500 | ............ | 1 | 2 |
| Sandusky | Sanilac | 317 | 273 | 190 | 79 | 10,000 | 6,000 00 | 3 | 4 |
| Sanilac Tp. 3 | Sanilac | 68 | 45 | 190 | 62 | 700 | ............ | ...... | 1 |
| Sanilac Township 8 fr | Sanilac | 62 | 50 | 180 | 78 | 700 | ............ | ...... | 1 |
| Saranac | Ionia | 267 | 213 | 200 | 96 | 10,000 | 33 52 | 1 | 6 |
| Saugatuck | Allegan | 235 | 184 | 177 | 92 | 12,500 | 416 00 | 1 | 6 |
| Sault Ste. Marie | Chippewa | 3,613 | 2,542 | 196 | 97 | 250,000 | 119,000 00 | 12 | 49 |
| Schoolcraft | Kalamazoo | 186 | 174 | 180 | 96 | 24,000 | ............ | 1 | 5 |
| Scottville | Mason | 246 | 225 | 180 | 94 | 15,000 | 5,600 00 | 1 | 6 |
| Sebewaing | Huron | 599 | 331 | 198 | 93 | 27,000 | 19,000 00 | 1 | 9 |
| Shelby | Oceana | 390 | 338 | 190 | 94 | 7,500 | ............ | 1 | 8 |
| Shepherd | Isabella | 258 | 240 | 180 | 91 | 20,000 | 14,000 00 | 1 | 5 |
| Sheridan | Montcalm | 173 | 148 | 180 | 87 | 5,265 | 1,800 00 | 1 | 4 |
| Sherman | Wexford | 198 | 160 | 180 | 90 | 3,000 | ............ | 1 | 3 |
| Sherwood | Branch | 133 | 111 | 180 | 80 | 6,000 | ............ | 2 | 2 |
| Soule | Huron | 129 | 102 | 200 | 65 | 1,500 | 200 00 | 1 | 1 |
| South Frankfort | Benzie | 178 | 174 | 200 | 83 | 5,000 | 70 00 | 1 | 5 |
| South Haven | Van Buren | 1,068 | 880 | 190 | 95 | 40,000 | ............ | 3 | 22 |
| South Lyon | Oakland | 171 | 137 | 190 | 98 | 35,000 | 260 00 | 1 | 4 |
| South Rockwood | Monroe | 129 | 126 | 200 | 59 | 4,000 | 629 44 | ...... | 2 |
| Spalding Tp | Menominee | 743 | 659 | 178 | 72 | 25,300 | 5,000 00 | 1 | 14 |
| Sparta | Kent | 332 | 321 | 200 | 80 | 10,000 | 4,000 00 | 1 | 8 |
| Spring Lake | Ottawa | 244 | 172 | 190 | 93 | 7,000 | 25 00 | 1 | 4 |
| Springport | Jackson | 130 | 108 | 193 | 90 | 8,000 | ............ | 1 | 4 |
| Springwells Tp. 3 | Wayne | 284 | 220 | 200 | 84 | 20,000 | 16,000 00 | ...... | 9 |
| Springwells Tp. 4 | Wayne | * | 515 | 200 | 91 | 30,000 | 19,000 00 | 1 | 13 |
| Springwells Tp. 7 | Wayne | * | 827 | 200 | 63 | 50,000 | 41,000 00 | 2 | 26 |
| Stambaugh Tp | Iron | 620 | 473 | 178 | 79 | 29,000 | 16,000 00 | 3 | 16 |
| Standish | Arenac | 438 | 395 | 200 | 78 | 1,200 | 7,500 00 | ...... | 7 |
| Stanton | Montcalm | 392 | 321 | 190 | 91 | 24,000 | 16,703 62 | 1 | 7 |
| Stanwood | Mecosta | 122 | 97 | 180 | 72 | 2,500 | 1,000 00 | ...... | 2 |
| Sterling | Arenac | 215 | 175 | 200 | 80 | 4,000 | ............ | 1 | 5 |
| Stevensville | Berrien | 262 | 155 | 180 | 90 | 5,500 | ............ | 1 | 8 |
| Stockbridge | Ingham | 201 | 179 | 200 | 95 | 7,500 | 50 00 | 1 | 4 |
| Sturgis | St. Joseph | 738 | 581 | 190 | 94 | 50,000 | 2,000 00 | 2 | 15 |
| Sumner Tp. 4 fr | Gratiot | 105 | 87 | 175 | 85 | 3,600 | ............ | ...... | 2 |
| Sunfield | Eaton | 128 | 106 | 190 | 87 | 4,000 | 250 00 | 1 | 3 |
| Superior Tp | Chippewa | 377 | 372 | 175 | 61 | 6,700 | ............ | 4 | 10 |
| Sutton's Bay | Leelanau | 198 | 100 | 180 | 73 | 5,000 | ............ | 1 | 2 |
| Tallmadge Tp. 1 fr | Ottawa | 110 | 97 | 174 | 63 | 1,000 | ............ | 1 | 1 |
| Tawas City | Iosco | 403 | 300 | 200 | 91 | 9,000 | ............ | 1 | 8 |

---

* Included in Detroit.

## TABLE XVI.—Continued.

| Aggregate number of months taught by all teachers. |  | Total wages of teachers for the year. |  | Average monthly wages of teachers. |  | Amount paid for superintendence and instruction. | Total cost of school. | Number of non-resident pupils. | Tuition of non-resident pupils. |
|---|---|---|---|---|---|---|---|---|---|
| Men. | Women. | Men. | Women. | Men. | Women. |  |  |  |  |
| 9 | 9 | $495 00 | $316 00 | $55 00 | $35 11 | $811 00 | $1,031 34 | 6 | $18 25 |
| 9 | 18 | 600 00 | 720 00 | 66 67 | 40 00 | 1,320 00 | 1,820 00 | ........ | ........ |
| 9.5 | 38 | 570 00 | 1,330 00 | 60 00 | 35 00 | 1,900 00 | 2,535 65 | ........ | ........ |
| 10 | 60 | 750 00 | 2,070 00 | 75 00 | 34 50 | 2,820 00 | 4,706 06 | 27 | 218 45 |
| 9 | 9 | 405 00 | 270 00 | 45 00 | 30 00 | 675 00 | 1,070 64 | 2 | 5 00 |
| 170 | 1,430 | 20,250 00 | 72,090 36 | 119 12 | 50 41 | 92,340 36 | 187,517 81 | 61 | 1,586 77 |
| 50 | 770 | 6,000 00 | 37,466 30 | 120 00 | 48 53 | 43,466 30 | 84,067 26 | 41 | 330 29 |
| 10 | 80 | 1,000 00 | 2,950 00 | 100 00 | 36 88 | 3,950 00 | 5,629 01 | 10 | 41 62 |
| 10 | 146 | 1,200 00 | 6,070 00 | 120 00 | 41 58 | 7,270 00 | 15,477 06 | 16 | 92 85 |
| 27 | 72 | 1,530 00 | 3,530 00 | 56 67 | 49 03 | 5,060 00 | 8,035 12 | 4 | ........ |
| 20 | 220 | 2,150 00 | 9,312 70 | 107 50 | 42 33 | 11,462 70 | 18,384 74 | 41 | 523 42 |
| 36 | 234 | 4,000 00 | 12,895 60 | 111 11 | 55 11 | 16,895 60 | 27,163 82 | 22 | 193 60 |
| 10 | 160 | 1,100 00 | 7,025 00 | 110 00 | 43 91 | 8,125 00 | 11,628 64 | 33 | 327 55 |
| 9 | 9 | 400 00 | 225 00 | 44 44 | 25 00 | 625 00 | 756 29 | 5 | 4 00 |
| 10 | 60 | 1,000 00 | 2,350 00 | 100 00 | 39 17 | 3,350 00 | 4,422 65 | 30 | 364 88 |
| 9 | 18 | 500 00 | 607 50 | 55 56 | 33 75 | 1,107 50 | 1,367 09 | 8 | 33 78 |
| 9.3 | 38 | 623 00 | 1,501 00 | 66 99 | 39 50 | 2,124 00 | 3,130 88 | 13 | 72 75 |
| ........ | 9 | ........ | 360 00 | ........ | 40 00 | 360 00 | 382 43 | 9 | ........ |
| ........ | 9 | ........ | 360 00 | ........ | 40 00 | 360 00 | 458 96 | ........ | ........ |
| 10 | 60 | 700 00 | 2,075 00 | 70 00 | 34 58 | 2,775 00 | 3,719 88 | 45 | 382 05 |
| 9 | 45.9 | 900 00 | 1,480 13 | 100 00 | 32 25 | 2,380 13 | 3,504 75 | 16 | 118 79 |
| 120 | 482 | 10,750 00 | 26,117 50 | 89 58 | 54 18 | 36,867 50 | 80,009 09 | ........ | ........ |
| 9 | 45 | 1,000 00 | 1,890 00 | 111 11 | 42 00 | 2,890 00 | 4,557 84 | 28 | 420 42 |
| 9 | 54 | 650 00 | 2,250 00 | 72 22 | 41 67 | 2,900 00 | 4,436 70 | 38 | 341 54 |
| 10 | 53 | 800 00 | 2,148 00 | 80 00 | 40 53 | 2,948 00 | 20,126 50 | 3 | ........ |
| 9.5 | 76 | 850 00 | 3,016 25 | 89 47 | 39 69 | 3,866 25 | 5,001 09 | 32 | 298 00 |
| 9 | 45 | 700 00 | 1,620 00 | 77 78 | 36 00 | 2,320 00 | 5,154 12 | 22 | 169 22 |
| 9 | 27 | 585 00 | 955 00 | 65 00 | 35 37 | 1,540 00 | 2,237 14 | 15 | ........ |
| 9 | 27 | 540 00 | 1,080 00 | 60 00 | 40 00 | 1,620 00 | 2,051 23 | 9 | 51 00 |
| 18 | 18 | 900 00 | 720 00 | 50 00 | 40 00 | 1,620 00 | 2,371 96 | 22 | 91 75 |
| 10 | 10 | 500 00 | 280 00 | 50 00 | 28 00 | 780 00 | 1,010 26 | 4 | 15 75 |
| 10 | 30 | 700 00 | 1,075 00 | 70 00 | 35 83 | 1,775 00 | 2,258 35 | 6 | 38 25 |
| 28.5 | 209 | 2,075 00 | 9,494 43 | 93 86 | 45 42 | 12,169 43 | 16,252 21 | 141 | 1,216 73 |
| 9.5 | 38 | 600 00 | 1,330 00 | 63 16 | 35 00 | 1,930 00 | 2,984 18 | 24 | 285 82 |
| ........ | 20 | ........ | 800 00 | ........ | 40 00 | 800 00 | 1,820 88 | ........ | ........ |
| 10 | 130 | 888 90 | 5,580 00 | 88 89 | 42 92 | 6,468 90 | 11,990 89 | 11 | ........ |
| 10 | 80 | 850 00 | 3,175 00 | 85 00 | 39 69 | 4,025 00 | 5,558 19 | 16 | 221 74 |
| 9.5 | 36 | 738 89 | 1,428 50 | 77 78 | 39 68 | 2,167 39 | 3,224 98 | 2 | ........ |
| 10 | 40 | 650 00 | 1,500 00 | 65 00 | 37 50 | 2,150 00 | 2,872 28 | 25 | 208 00 |
| ........ | 67.2 | ........ | 3,422 50 | ........ | 50 89 | 3,422 50 | 13,741 66 | ........ | ........ |
| 10 | 126.5 | 1,110 00 | 5,476 75 | 111 00 | 43 30 | 6,586 75 | 12,093 40 | ........ | ........ |
| 15 | 230 | 1,600 00 | 9,633 75 | 106 67 | 41 89 | 11,233 75 | 19,744 86 | 15 | 63 75 |
| 26.2 | 122.8 | 1,660 00 | 5,511 63 | 63 24 | 44 90 | 7,171 63 | 15,190 99 | 6 | 8 63 |
| ........ | 70 | ........ | 2,594 75 | ........ | 37 07 | 2,594 75 | 7,249 85 | 15 | 113 85 |
| 9.5 | 66.5 | 900 00 | 2,876 89 | 94 74 | 43 26 | 3,776 89 | 22,347 95 | 16 | 142 50 |
| ........ | 18 | ........ | 720 00 | ........ | 40 00 | 720 00 | 928 99 | 4 | 11 50 |
| 4.1 | 25.8 | 237 80 | 1,011 50 | 58 00 | 39 28 | 1,249 30 | 1,588 51 | ........ | ........ |
| 9 | 36 | 630 00 | 1,440 00 | 70 00 | 40 00 | 2,070 00 | 2,666 69 | 11 | 115 00 |
| 10 | 40 | 800 00 | 1,525 00 | 80 00 | 38 12 | 2,325 00 | 3,257 95 | 36 | 298 94 |
| 19 | 141 | 1,492 00 | 5,546 20 | 78 53 | 39 33 | 7,038 20 | 12,190 09 | 33 | 355 69 |
| ........ | 18 | ........ | 743 50 | ........ | 41 30 | 743 50 | 1,305 93 | 1 | ........ |
| 9.5 | 28.5 | 570 00 | 1,140 00 | 60 00 | 40 00 | 1,710 00 | 2,653 65 | 11 | 86 25 |
| 25 | 74 | 1,434 50 | 2,817 60 | 57 38 | 38 07 | 4,252 10 | 6,540 73 | 16 | ........ |
| 9 | 18 | 540 00 | 630 00 | 60 00 | 35 00 | 1,170 00 | 1,482 32 | 8 | 2 00 |
| 9 | 9 | 450 00 | 315 00 | 50 00 | 35 00 | 765 00 | 890 72 | 1 | 40 40 |
| 10 | 79 | 875 00 | 3,162 50 | 87 50 | 40 03 | 4,037 50 | 5,126 50 | 4 | 22 75 |

## TABLE XVI.—Concluded.

| Districts. | Counties. | Number of children between 5 and 20 years. | Number of children that attended school during the year. | Number of days school. | Percentage of attendance. | Estimated valuation of school property. | Total indebtedness. | Number of teachers employed. | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Men. | Women. |
| Tecumseh | Lenawee | 565 | 456 | 186 | 95 | $53,000 | | 2 | 15 |
| Tekonsha | Calhoun | 158 | 134 | 180 | 88 | 5,000 | | 2 | 3 |
| Thompsonville | Benzie | 330 | 302 | 175 | 75 | 4,000 | $333 54 | 2 | 5 |
| Thornville | Lapeer | 66 | 50 | 180 | 58 | 2,000 | 75 00 | 1 | 1 |
| Three Oaks | Berrien | 400 | 315 | 180 | 95 | 5,000 | | 1 | 7 |
| Three Rivers | St. Joseph | 978 | 826 | 190 | 96 | 80,000 | 25,224 59 | 3 | 25 |
| Traverse City | Grand Traverse | 2,786 | 2,668 | 177 | 94 | 165,000 | 29,000 00 | 5 | 54 |
| Trenton | Wayne | 409 | 302 | 200 | 90 | 21,000 | 20,000 00 | 1 | 7 |
| Turner | Arenac | 223 | 188 | 200 | 94 | 3,000 | | 1 | 2 |
| Tuscola | Tuscola | 105 | 88 | 180 | 58 | 1,200 | | 1 | 1 |
| Tustin | Osceola | 176 | 133 | 180 | 78 | 4,000 | | 1 | 4 |
| Twining | Arenac | 195 | 191 | 160 | 80 | 6,000 | 1,580 00 | 1 | 2 |
| Tyre | Sanilac | 152 | 134 | 180 | 85 | 900 | | 1 | 1 |
| Union City | Branch | 362 | 314 | 200 | 91 | 25,000 | | 4 | 11 |
| Unionville | Tuscola | 227 | 191 | 200 | 75 | 11,000 | 4,800 00 | 1 | 4 |
| Utica | Macomb | 203 | 178 | 200 | 93 | 8,000 | | 1 | 4 |
| Vandalia | Cass | 142 | 118 | 180 | 81 | 6,200 | | 2 | 3 |
| Vanderbilt | Otsego | 195 | 175 | 180 | 88 | 3,000 | 1,000 00 | 2 | 2 |
| Vassar | Tuscola | 482 | 312 | 200 | 93 | 25,000 | | 1 | 12 |
| Vermontville | Eaton | 189 | 161 | 190 | 91 | 10,000 | | 1 | 6 |
| Vernon | Shiawassee | 114 | 84 | 200 | 93 | 8,000 | 500 00 | 2 | 2 |
| Vestaburg | Montcalm | 124 | 89 | 180 | 85 | 1,500 | | 1 | 2 |
| Vicksburg | Kalamazoo | 318 | 275 | 180 | 97 | 10,000 | 500 00 | 2 | 7 |
| Vriesland | Ottawa | 140 | 115 | 190 | 88 | 3,000 | | 1 | 2 |
| Wacousta | Clinton | 78 | 61 | 170 | 80 | 1,100 | | 2 | 2 |
| Wakefield | Gogebic | 597 | 496 | 192 | 89 | 26,000 | 16,000 00 | 1 | 14 |
| Waldron | Hillsdale | 121 | 107 | 180 | 76 | 2,500 | 7,000 00 | 1 | 2 |
| Warren | Macomb | 116 | 82 | 180 | 75 | 2,500 | | 1 | 1 |
| Warren Tp. 1 fr. | Macomb | 89 | 66 | 180 | 84 | 1,000 | 21 48 | 1 | 1 |
| Washington Tp. 4 | Sanilac | 90 | 88 | 200 | 61 | 1,000 | | 1 | |
| Washington Tp. 12 fr. | Macomb | 85 | 80 | 200 | 64 | 1,500 | | 2 | 1 |
| Watervliet | Berrien | 286 | 292 | 180 | 83 | 10,000 | | 1 | 6 |
| Watrousville | Tuscola | 83 | 84 | 200 | 78 | 2,400 | | 1 | 1 |
| Wayland | Allegan | 185 | 171 | 180 | 84 | 7,500 | | 2 | 3 |
| Wayne | Wayne | 349 | 357 | 200 | 95 | 18,000 | | 1 | 9 |
| Webberville | Ingham | 149 | 117 | 179 | 83 | 4,000 | | 1 | 2 |
| Weidman | Isabella | 225 | 157 | 180 | 60 | 2,800 | | 1 | 1 |
| West Branch | Ogemaw | 539 | 521 | 190 | 93 | 15,000 | 12,000 00 | 1 | 8 |
| Wheeler | Gratiot | 82 | 69 | 177 | 76 | 1,200 | | | 2 |
| White Cloud | Newaygo | 246 | 235 | 180 | 69 | 7,000 | | 1 | 5 |
| Whitehall | Muskegon | 459 | 342 | 190 | 94 | 30,000 | | 1 | 9 |
| White Pigeon | St. Joseph | 158 | 136 | 200 | 87 | 18,000 | | 1 | 5 |
| White Rock | Huron | 45 | 31 | 180 | 74 | 500 | | | 1 |
| Whittemore | Iosco | 139 | 111 | 193 | 83 | 1,500 | | 1 | 1 |
| Williamston | Ingham | 348 | 300 | 200 | 95 | 2,500 | 2,000 00 | 2 | 10 |
| Winsor Tp. 1 | Huron | 191 | 136 | 210 | 67 | 3,000 | | 1 | 1 |
| Winsor Tp. 2 | Huron | 145 | 91 | 200 | 58 | 1,000 | | | 1 |
| Wolverine | Cheboygan | 241 | 209 | 180 | 70 | 7,500 | 1,500 00 | 1 | 5 |
| Woodland | Barry | 93 | 86 | 180 | 85 | 3,000 | | 1 | 2 |
| Worth Tp. 12 fr. | Sanilac | 53 | 36 | 180 | 72 | 600 | | | 1 |
| Wyandotte | Wayne | 2,227 | 1,040 | 196 | 93 | 100,000 | 69,680 00 | 1 | 27 |
| Wyoming Tp. 7 | Kent | 307 | 184 | 200 | 59 | 3,000 | 3,000 00 | 1 | 1 |
| Wyoming Tp. 9 fr. | Kent | 421 | 355 | 200 | 83 | 15,000 | 12,100 00 | 1 | 6 |
| Yale | St. Clair | 387 | 316 | 200 | 79 | 30,000 | 18,700 00 | 1 | 11 |
| Ypsilanti | Washtenaw | 1,629 | 1,074 | 195 | 94 | 70,000 | 10,000 00 | 5 | 30 |
| Yuma | Wexford | 105 | 93 | 190 | 57 | 2,000 | | 1 | 1 |
| Zeeland | Ottawa | 509 | 475 | 200 | 90 | 7,000 | | 1 | 11 |
| Zeeland Tp. 4 fr. | Ottawa | 111 | 71 | 200 | 93 | 2,400 | | 1 | 1 |
| Zutphen | Ottawa | 134 | 95 | 180 | 60 | 1,200 | | 1 | 1 |

## TABLE XVI.—CONCLUDED.

| Aggregate number of months taught by all teachers. | | Total wages of teachers for the year. | | Average monthly wages of teachers. | | Amount paid for superintendence and instruction. | Total cost of school. | Number of non-resident pupils. | Tuition of non-resident pupils. |
|---|---|---|---|---|---|---|---|---|---|
| Men. | Women. | Men. | Women. | Men. | Women. | | | | |
| 9.2 | 137.2 | $534 00 | $6,231 00 | $58 04 | $45 41 | $6,765 00 | $10,915 61 | 62 | $853 30 |
| 18 | 27 | 911 50 | 1,035 00 | 50 64 | 38 33 | 1,946 50 | 2,251 64 | 26 | 304 58 |
| 18 | 45 | 1,035 00 | 1,662 00 | 57 50 | 36 93 | 2,697 00 | 3,705 83 | 2 | ........ |
| 9 | 9 | 405 00 | 243 00 | 45 00 | 27 00 | 648 00 | 785 86 | ........ | ........ |
| 9 | 63 | 900 00 | 2,407 50 | 100 00 | 38 21 | 3,307 50 | 4,367 06 | 17 | 239 56 |
| 28.5 | 237 | 3,050 00 | 10,606 00 | 107 02 | 44 77 | 13,656 00 | 50,817 13 | 28 | 296 00 |
| 45 | 486 | 3,089 97 | 25,533 86 | 68 66 | 52 54 | 28,623 83 | 43,879 96 | 65 | 1,011 87 |
| 10 | 60 | 750 00 | 2,460 00 | 75 00 | 41 00 | 3,210 00 | 5,899 61 | 6 | 47 20 |
| 10 | 20 | 650 00 | 750 00 | 65 00 | 37 50 | 1,400 00 | 1,862 62 | 4 | 16 50 |
| 9 | 9 | 450 00 | 225 00 | 50 00 | 25 00 | 675 00 | 859 41 | 15 | 88 90 |
| 9 | 27 | 540 00 | 990 00 | 60 00 | 36 67 | 1,530 00 | 2,697 76 | 7 | 36 00 |
| 8 | 16 | 550 00 | 670 00 | 68 75 | 41 88 | 1,220 00 | 4,481 32 | 18 | 12 75 |
| 9 | 6 | 418 50 | 162 00 | 46 50 | 27 00 | 580 50 | 697 80 | 20 | ........ |
| 22.5 | 97.5 | 1,799 35 | 3,943 74 | 79 97 | 40 45 | 5,743 09 | 7,756 18 | 45 | 472 40 |
| 10 | 33 | 650 00 | 1,050 00 | 65 00 | 31 82 | 1,700 00 | 2,584 28 | 17 | 80 00 |
| 10 | 40 | 800 00 | 1,400 00 | 80 00 | 35 00 | 2,200 00 | 2,876 32 | 11 | 129 33 |
| 9 | 27 | 585 00 | 1,012 50 | 65 00 | 37 50 | 1,597 50 | 2,331 00 | 9 | 104 60 |
| 19 | 18 | 960 00 | 1,720 00 | 50 53 | 40 00 | 1,680 00 | 2,418 58 | 3 | 20 00 |
| 10 | 120 | 1,100 00 | 4,425 00 | 110 00 | 36 88 | 5,525 00 | 7,190 27 | 38 | 318 90 |
| 9.5 | 57 | 750 00 | 2,137 50 | 78 95 | 37 50 | 2,887 50 | 3,781 85 | 40 | 379 02 |
| 20 | 20 | 900 00 | 600 00 | 45 00 | 30 00 | 1,500 00 | 2,184 12 | 10 | 136 50 |
| 9 | 17.7 | 405 00 | 665 00 | 45 00 | 37 46 | 1,070 00 | 1,320 09 | 2 | 17 50 |
| 18 | 63 | 1,255 00 | 2,448 00 | 69 72 | 38 86 | 3,703 00 | 5,105 50 | 46 | 683 64 |
| 9.5 | 9.7 | 427 50 | 276 00 | 45 00 | 28 50 | 703 50 | 936 65 | ........ | ........ |
| 8.5 | 8.5 | 447 50 | 350 00 | 52 65 | 41 18 | 797 50 | 1,026 84 | 7 | 50 00 |
| 10 | 140 | 900 00 | 7,250 00 | 90 00 | 51 79 | 8,150 00 | 19,554 51 | ........ | ........ |
| 9 | 18 | 550 00 | 568 00 | 61 11 | 31 56 | 1,118 00 | 1,377 03 | 8 | 54 30 |
| 9 | 9 | 423 00 | 270 00 | 47 00 | 30 00 | 693 00 | 853 48 | 3 | 23 95 |
| 9 | 9 | 450 00 | 270 00 | 50 00 | 30 00 | 720 00 | 819 25 | 6 | 22 00 |
| 10 | ........ | 480 00 | ........ | 48 00 | ........ | 480 00 | 558 57 | 5 | ........ |
| 10 | 10 | 591 00 | 400 00 | 59 10 | 40 00 | 991 00 | 1,119 47 | 9 | 66 25 |
| 9 | 54 | 900 00 | 2,205 00 | 100 00 | 40 84 | 3,105 00 | 4,491 54 | 30 | 220 24 |
| 10 | 10 | 500 00 | 325 00 | 50 00 | 32 50 | 825 00 | 1,001 53 | 9 | 68 50 |
| 18 | 26.8 | 1,170 00 | 803 75 | 65 00 | 29 99 | 1,973 75 | 2,832 27 | 63 | 598 55 |
| 10 | 80 | 1,200 00 | 3,554 00 | 120 00 | 44 43 | 4,754 00 | 6,105 53 | 38 | 488 30 |
| 9 | 18 | 540 00 | 540 00 | 60 00 | 30 00 | 1,080 00 | 1,438 99 | 7 | 22 00 |
| 9 | 18 | 540 00 | 675 00 | 60 00 | 37 50 | 1,215 00 | 1,442 62 | 3 | 4 90 |
| 9.5 | 76 | 750 00 | 3,120 00 | 78 95 | 41 05 | 3,870 00 | 6,175 63 | 21 | 124 10 |
| ........ | 18 | ........ | 733 50 | ........ | 40 75 | 733 50 | 820 28 | 3 | ........ |
| 9 | 32 | 585 00 | 1,141 75 | 65 00 | 35 68 | 1,726 75 | 2,273 51 | 12 | 57 35 |
| 9.5 | 85.5 | 850 00 | 3,182 50 | 89 47 | 37 22 | 4,032 50 | 5,482 25 | 19 | 127 24 |
| 10 | 50 | 800 00 | 1,730 00 | 80 00 | 34 60 | 2,530 00 | 3,526 84 | 50 | 518 04 |
| ........ | 9 | ........ | 225 00 | ........ | 25 00 | 225 00 | 200 38 | 3 | ........ |
| 10 | 10 | 500 00 | 350 00 | 50 00 | 35 00 | 850 00 | 1,874 98 | 14 | 26 30 |
| 20 | 80.6 | 1,400 00 | 3,392 00 | 70 00 | 42 08 | 4,792 00 | 6,531 24 | 65 | 468 00 |
| 10 | 10.5 | 480 00 | 399 00 | 48 00 | 38 00 | 879 00 | 1,033 54 | ........ | ........ |
| ........ | 10 | ........ | 450 00 | ........ | 45 00 | 450 00 | 704 35 | ........ | ........ |
| 9 | 45 | 630 00 | 1,790 00 | 70 00 | 39 78 | 2,420 00 | 3,451 75 | 19 | 109 50 |
| 9 | 18 | 495 00 | 630 00 | 55 00 | 35 00 | 1,125 00 | 1,619 64 | 23 | 221 70 |
| ........ | 9 | ........ | 360 00 | ........ | 40 00 | 300 00 | 417 85 | ........ | ........ |
| 10 | 270 | 1,200 00 | 11,966 38 | 120 00 | 44 32 | 13,266 38 | 26,710 80 | 22 | 249 21 |
| 10 | 10 | 470 00 | 450 00 | 47 00 | 45 00 | 920 00 | 1,403 71 | ........ | ........ |
| 10 | 54.8 | 800 00 | 1,992 50 | 80 00 | 36 57 | 2,792 50 | 9,578 79 | 35 | 305 92 |
| 10 | 90 | 900 00 | 3,243 00 | 90 00 | 36 03 | 4,143 00 | 7,670 89 | 26 | 240 23 |
| 50 | 300 | 4,700 00 | 12,171 00 | 94 00 | 40 57 | 16,871 00 | 27,021 22 | 43 | 611 68 |
| 9.5 | 9.5 | 407 38 | 383 00 | 42 88 | 40 31 | 790 38 | 1,089 60 | ........ | ........ |
| 10 | 106 | 800 00 | 3,758 00 | 80 00 | 35 45 | 4,558 00 | 6,196 02 | 5 | 14 50 |
| 10 | 10 | 600 00 | 300 00 | 60 00 | 30 00 | 900 00 | 1,062 93 | 2 | ........ |
| 9 | 9 | 445 00 | 270 00 | 49 44 | 30 00 | 715 00 | 962 88 | ........ | ........ |

## TABLE XVII.

*Census , enrollment, attendance, etc., of city and graded village schools*

| Incorporated cities. | School population from inspectors' report. | Enrollment. | | | | Average number belonging. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | High school department. | Grammar department. | Primary department. | Whole school. | High school department. | Grammar department. | Primary department. | Whole school. | High school department. |
| Totals for cities | 305,316 | 22,562 | 73,426 | 132,711 | 228,690 | 18,330 | 49,833 | 83,162 | 151,325 | 17,702 |
| Adrian | 2,574 | 298 | 672 | 1,086 | 2,056 | 263 | 530 | 744 | 1,537 | 261 |
| Albion | 1,595 | 228 | 330 | 515 | 1,073 | 190 | 321 | 420 | 940 | 194 |
| Alma | 664 | 90 | 207 | 429 | 726 | 73 | 160 | 296 | 529 | 70 |
| Alpena | 3,908 | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Ann Arbor | 3,355 | 635 | ‡ 1,890 | ...... | 2,525 | 531 | ‡ 1,692 | ...... | 2,223 | 506 |
| †Au Gres | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Au Sable | 515 | 57 | 142 | 182 | 381 | 53 | 131 | 165 | 349 | 50 |
| Bad Axe | 498 | 85 | 161 | 136 | 382 | 82 | 151 | 131 | 364 | 79 |
| Battle Creek | 4,619 | 433 | 1,163 | 2,343 | 3,939 | 400 | 1,005 | 1,974 | 3,379 | 394 |
| Bay City | 14,346 | 997 | 2,614 | 5,745 | 9,356 | 645 | 1,716 | 3,504 | 5,865 | 627 |
| Beaverton | 308 | 34 | 70 | 120 | 224 | 32 | 60 | 110 | 202 | 30 |
| Belding | 840 | 86 | 210 | 334 | 630 | 78 | 206 | 323 | 607 | 77 |
| Benton Harbor | 1,919 | 240 | 564 | 897 | 1,701 | 208 | 438 | 613 | 1,259 | 203 |
| Bessemer | 1,226 | 116 | 302 | 577 | 995 | 110 | 299 | 570 | 979 | 108 |
| Big Rapids | 1,333 | 150 | 303 | 563 | 1,016 | 131 | 248 | 397 | 776 | 127 |
| Cadillac | 2,304 | 206 | 649 | 1,160 | 2,015 | 190 | 522 | 907 | 1,619 | 185 |
| Charlevoix | 755 | 122 | 193 | 277 | 592 | 106 | 185 | 275 | 566 | 105 |
| Charlotte | 1,005 | 191 | 300 | 480 | 971 | 171 | 249 | 358 | 778 | 168 |
| Cheboygan | 2,254 | 131 | 421 | 903 | 1,455 | 106 | 319 | 649 | 1,074 | 103 |
| Clare | 508 | 58 | 145 | 220 | 423 | 55 | 126 | 183 | 364 | 53 |
| Coldwater | 1,342 | 201 | 307 | 749 | 1,257 | 175 | 266 | 567 | 1,008 | 170 |
| Coleman | 405 | 45 | 119 | 250 | 414 | 43 | 101 | 195 | 339 | 37 |
| Corunna | 406 | 63 | 115 | 234 | 412 | 58 | 101 | 175 | 334 | 57 |
| Croswell | 357 | 60 | 88 | 174 | 322 | 46 | 84 | 151 | 281 | 44 |
| Crystal Falls | 1,308 | 92 | 470 | 1,082 | 1,644 | 75 | 250 | 545 | 870 | 72 |
| Detroit | 92,747 | 4,236 | 20,808 | 45,107 | 70,151 | 3,059 | 11,145 | 21,390 | 35,594 | 2,934 |
| Dowagiac | 1,160 | 137 | 399 | 729 | 1,265 | 121 | 333 | 479 | 933 | 119 |
| East Tawas | 564 | 51 | 155 | 210 | 416 | 49 | 150 | 185 | 384 | 48 |
| Eaton Rapids | 425 | 130 | 115 | 176 | 421 | 113 | 99 | 135 | 347 | 108 |
| Escanaba | 3,976 | 243 | 936 | 1,508 | 2,687 | 223 | 612 | 1,048 | 1,883 | 216 |
| Flint | 3,518 | 405 | 1,273 | 2,175 | 3,853 | 335 | 873 | 1,227 | 2.435 | 325 |
| Gladstone | 1,031 | 92 | 234 | 574 | 900 | 81 | 194 | 438 | 713 | 79 |
| Gladwin | 354 | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Grand Haven | 1,619 | 147 | 475 | 626 | 1,248 | 138 | 359 | 511 | 1,008 | 137 |
| Grand Ledge, 9 fr | 298 | 71 | 96 | 110 | 277 | 68 | 91 | 99 | 258 | 64 |
| Grand Ledge, 11 fr | 269 | 4 | 80 | 134 | 218 | 4 | 71 | 115 | 190 | 3 |
| Grand Rapids | 27,183 | 1,828 | 7,547 | 13,395 | 22,770 | 1,296 | 4,253 | 7,498 | 13,047 | 1,257 |
| Greenville | 933 | 182 | 393 | 422 | 997 | 151 | 258 | 305 | 714 | 145 |
| Hancock | 2.022 | 145 | 569 | 1,269 | 1,983 | 119 | 294 | 652 | 1,065 | 116 |
| Harrison | 232 | 38 | 40 | 94 | 172 | 29 | 38 | 81 | 148 | 26 |
| Harrisville | 193 | 22 | 52 | 80 | 154 | 22 | 50 | 75 | 147 | 21 |
| Hastings | 803 | 165 | 260 | 335 | 760 | 149 | 240 | 302 | 691 | 145 |
| Hillsdale | 1,150 | 250 | 331 | 498 | 1,079 | 219 | 276 | 342 | 837 | 216 |
| Holland | 2,886 | 131 | 730 | 1,280 | 2,141 | 108 | 548 | 902 | 1,558 | 106 |
| Hudson | 605 | 137 | 157 | 264 | 558 | 124 | 135 | 209 | 468 | 118 |
| Ionia | 1,570 | 130 | 399 | 719 | 1,248 | 121 | 172 | 437 | 730 | 119 |
| Iron Mountain | 3,294 | 166 | 775 | 1,870 | 2,811 | 143 | 705 | 1,479 | 2,327 | 136 |
| Ironwood | 3,562 | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Ishpeming | 4,050 | 356 | 1,338 | 1,538 | 3,232 | 342 | 1,298 | 1,486 | 3,126 | 328 |
| Jackson | 5,669 | 444 | 1,823 | 3,082 | 5,349 | 335 | 1,104 | 1,908 | 3,347 | 325 |

---

† Not legally graded.

# TABLE XVII.

*as reported by superintendents for the school year 1905-1906.*

| Average daily attendance. | | | Percentage of attendance. | | | | Number of regular teachers employed. | | | | | | | | Portion of superintendent's time devoted to supervision. | No. of special teachers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | High school department. | | Grammar department. | | Primary department. | | Whole school. | | | |
| Grammar department. | Primary department. | Whole school. | High school department. | Grammar department. | Primary department. | Whole school. | Men. | Women. | Men. | Women. | Men. | Women. | Men. | Women. | | |
| 47,447 | 78,473 | 143,622 | 94 | 94 | 91 | 94 | 245.6 | 535.2 | 62.4 | 1,450.2 | 14 | 2,214.9 | 384 | 4,202 | ...... | 162 |
| 499 | 687 | 1,447 | 97 | 94 | 94 | 95 | 2 | 7 | .... | 14 | .... | 21 | 3 | 42 | All | 5 |
| 275 | 397 | 766 | 96 | 94 | 95 | 95 | 3.2 | 3 | .... | 7 | .... | 11 | 4 | 21 | 8-10 | 2 |
| 152 | 277 | 499 | 96 | 95 | 94 | 95 | 1.3 | 2 | .... | 5 | .... | 8 | 2 | 15 | 7-10 | 1 |
| ‡ 1,619 | ........ | 2,125 | 95 | ‡95 | .... | 95 | 8 | 11.2 | .... | ‡ 48 | .... | ........ | 9 | 60 | All | 4 |
| 129 | 161 | 340 | 90 | 89 | 87 | 88 | .8 | 1 | .... | 3 | .... | 4 | 1 | 8 | 2-10 | .... |
| 153 | 125 | 357 | 96 | 91 | 95 | 94 | .8 | 2 | .... | 6 | .... | 2 | 1 | 10 | 2-10 | .... |
| 974 | 1,899 | 3,267 | 98 | 97 | 96 | 97 | 5 | 11 | 3 | 26 | .... | 57 | 9 | 94 | All | 5 |
| 1,687 | 3,428 | 5,742 | 97 | 98 | 98 | 98 | 13 | 16 | 2 | 56 | 3 | 98 | 19 | 170 | All | 5 |
| 55 | 100 | 185 | 94 | 91 | 91 | 92 | .8 | 1 | 1 | 1 | .... | 3 | 2 | 5 | 2-10 | .... |
| 196 | 295 | 568 | 98 | 95 | 90 | 94 | .5 | 3.5 | .... | 6.5 | .... | 9 | 1 | 19 | 1-2 | 2 |
| 418 | 582 | 1,203 | 98 | 95 | 95 | 96 | 2 | 5 | .... | 12 | .... | 17 | 3 | 34 | All | 1 |
| 295 | 550 | 953 | 98 | 98 | 96 | 97 | 2 | 3.1 | .... | 8 | .... | 13 | 2 | 25 | 9-10 | 1 |
| 238 | 375 | 740 | 97 | 96 | 94 | 95 | 1.1 | 5 | .... | 7 | .... | 12 | 2 | 24 | 9-10 | 1 |
| 490 | 860 | 1,535 | 97 | 94 | 95 | 95 | ...... | 7 | ... | 14 | .... | 19 | 1 | 40 | All | 1 |
| 179 | 234 | 518 | 96 | 93 | 91 | 93 | 1 | 5 | .... | 6 | .... | 9 | 2 | 20 | All | 1 |
| 242 | 341 | 751 | 98 | 95 | 94 | 96 | 1.1 | 5 | .... | 7 | .... | 11 | 2 | 23 | 9-10 | .... |
| 297 | 600 | 1,000 | 97 | 93 | 92 | 94 | 1.3 | 2 | .9 | 7.8 | .8 | 15.2 | 4 | 25 | All | 1 |
| 120 | 154 | 327 | 96 | 95 | 84 | 90 | .8 | 2 | .... | 4 | .... | 4 | 1 | 10 | 2-10 | .... |
| 258 | 537 | 965 | 97 | 97 | 95 | 96 | 3.1 | 2.5 | .... | 10 | .... | 15.5 | 4 | 28 | 9-10 | 2 |
| 88 | 162 | 287 | 86 | 88 | 80 | 84 | 1.8 | 1 | .... | 2 | .... | 4 | 2 | 7 | 2-10 | .... |
| 98 | 166 | 321 | 98 | 97 | 95 | 97 | .5 | 2 | .... | 4 | .... | 5 | 1 | 11 | 1-2 | 2 |
| 81 | 147 | 272 | 94 | 97 | 97 | 96 | 1.7 | ...... | .... | 2 | .... | 3 | 2 | 5 | 3-10 | .... |
| 237 | 522 | 831 | 96 | 94 | 95 | 95 | .2 | 4 | .... | 6 | .... | 15 | 1 | 25 | 8-10 | 3 |
| 10,694 | 20,161 | 33,789 | 96 | 96 | 92 | 95 | 43 | 90 | 23 | 362 | 5 | 555 | 72 | 1,007 | All | 6 |
| 328 | 466 | 913 | 98 | 98 | 98 | 98 | 2.3 | 3 | 1 | 9 | .... | 13 | 4 | 25 | 7-10 | 1 |
| 140 | 160 | 348 | 99 | 93 | 86 | 93 | .8 | 1 | .... | 3 | .... | 4 | 1 | 8 | 2-10 | 1 |
| 92 | 130 | 330 | 95 | 93 | 96 | 95 | 1.5 | 3 | .... | 3 | .... | 4 | 2 | 10 | 1-2 | 2 |
| 584 | 1,002 | 1,802 | 97 | 93 | 93 | 94 | 2 | 6 | .... | 16 | .... | 23 | 3 | 45 | All | 2 |
| 781 | 1,215 | 2,321 | 97 | 89 | 90 | 95 | 3 | 11 | .... | 22 | .... | 35 | 4 | 68 | All | 4 |
| 191 | 422 | 692 | 98 | 98 | 96 | 98 | 1.4 | 2 | .... | 5 | .... | 9 | 2 | 16 | 6-10 | .... |
| 355 | 501 | 993 | 99 | 99 | 98 | 98 | .1 | 5 | .... | 10 | ... | 14 | 1 | 29 | 9-10 | 1 |
| 84 | 91 | 239 | 94 | 92 | 91 | 92 | 1.8 | 2.2 | .... | 2.3 | .... | 2.5 | 2 | 7 | 2-10 | 1 |
| 59 | 50 | 112 | 75 | 83 | 43 | 59 | 1 | 1 | ... | 2 | .... | 1 | 1 | 4 | ...... | 1 |
| 4,057 | 7,092 | 12,406 | 97 | 94 | 93 | 95 | 15.3 | 34 | 5.3 | 113.2 | 1.4 | 220.8 | 23 | 398 | All | 4 |
| 253 | 280 | 678 | 96 | 98 | 92 | 95 | 1.4 | 4.4 | .... | 6.5 | .... | 7.1 | 2 | 18 | 6-10 | 2 |
| 292 | 631 | 1,039 | 97 | 99 | 96 | 97 | 3.2 | 3 | .... | 6 | ... | 13 | 4 | 22 | 8 10 | .... |
| 32 | 64 | 122 | 89 | 98 | 81 | 93 | 1 | ...... | 1 | ........ | | 2 | 2 | 2 | ...... | .... |
| 46 | 73 | 110 | 95 | 92 | 97 | 95 | .8 | ...... | .... | 1 | .... | 2 | 1 | 3 | 2-10 | .... |
| 229 | 290 | 664 | 97 | 95 | 96 | 96 | 2.3 | 4 | .... | 5 | .... | 10 | 3 | 19 | 7-10 | 2 |
| 269 | 331 | 816 | 96 | 96 | 96 | 96 | 2.2 | 5 | .... | 8 | .... | 10 | 3 | 23 | 8-10 | 4 |
| 534 | 864 | 1,504 | 96 | 97 | 98 | 97 | 2 | 4 | .... | 13 | .... | 21 | 3 | 38 | All | 2 |
| 128 | 201 | 447 | 95 | 95 | 96 | 95 | 1.4 | 3 | .... | 4 | .... | 7 | 2 | 14 | 6-10 | .... |
| 156 | 390 | 665 | 98 | 90 | 89 | 91 | 1.5 | 6 | .... | 10.4 | .... | 12.6 | 2 | 29 | 1-2 | 3 |
| 659 | 1,422 | 2,217 | 95 | 95 | 95 | 95 | 2 | 1.3 | 3 | 17 | .... | 36.7 | 6 | 55 | All | 4 |
| 1,178 | 1,298 | 2,804 | 90 | 91 | 90 | 90 | 1 | 11 | .... | 20 | .... | 41 | 2 | 72 | All | 5 |
| 1,065 | 1,820 | 3,210 | 97 | 96 | 94 | 96 | 4.2 | 10 | 2 | 29 | .... | 53 | 7 | 92 | 8-10 | 2 |

‡ Includes grammar and primary department.

## TABLE XVII.

*Census, enrollment, attendance, etc., of city and graded village schools*

| Incorporated cities. | School population from inspectors report. | Enrollment. | | | | Average number belonging. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | High school department. | Grammar department. | Primary department. | Whole school. | High school department. | Grammar department. | Primary department. | Whole school. | High school department. |
| Totals for cities | 305,316 | 22,562 | 73,426 | 132,711 | 228,699 | 18,330 | 49,833 | 83,162 | 151,325 | 17,702 |
| Adrian | 2,574 | 298 | 672 | 1,086 | 2,056 | 263 | 530 | 744 | 1,537 | 261 |
| Albion | 1,595 | 228 | 330 | 515 | 1,073 | 199 | 321 | 420 | 940 | 194 |
| Alma | 664 | 90 | 207 | 429 | 726 | 73 | 160 | 296 | 529 | 70 |
| Alpena | 3,908 | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Ann Arbor | 3,355 | 635 | ‡ 1,890 | ...... | 2,525 | 531 | ‡ 1,692 | ...... | 2,223 | 506 |
| †Au Gres | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Au Sable | 515 | 57 | 142 | 182 | 381 | 53 | 131 | 165 | 349 | 50 |
| Bad Axe | 498 | 85 | 161 | 136 | 382 | 82 | 151 | 131 | 364 | 79 |
| Battle Creek | 4,619 | 433 | 1,163 | 2,343 | 3,939 | 400 | 1,005 | 1,974 | 3,379 | 394 |
| Bay City | 14,346 | 997 | 2,614 | 5,745 | 9,356 | 645 | 1,716 | 3,504 | 5,865 | 627 |
| Beaverton | 308 | 34 | 70 | 120 | 224 | 32 | 60 | 110 | 202 | 30 |
| Belding | 840 | 86 | 210 | 334 | 630 | 78 | 206 | 323 | 607 | 77 |
| Benton Harbor | 1,919 | 240 | 564 | 897 | 1,701 | 208 | 438 | 613 | 1,259 | 203 |
| Bessemer | 1,226 | 116 | 302 | 577 | 995 | 110 | 299 | 570 | 979 | 108 |
| Big Rapids | 1,333 | 150 | 303 | 563 | 1,016 | 131 | 248 | 397 | 776 | 127 |
| Cadillac | 2,304 | 206 | 649 | 1,160 | 2,015 | 190 | 522 | 907 | 1,619 | 185 |
| Charlevoix | 755 | 122 | 193 | 277 | 592 | 106 | 185 | 275 | 566 | 105 |
| Charlotte | 1,005 | 191 | 300 | 480 | 971 | 171 | 249 | 358 | 778 | 168 |
| Cheboygan | 2,254 | 131 | 421 | 903 | 1,455 | 106 | 319 | 649 | 1,074 | 103 |
| Clare | 508 | 58 | 145 | 220 | 423 | 55 | 126 | 183 | 364 | 53 |
| Coldwater | 1,342 | 201 | 307 | 749 | 1,257 | 175 | 266 | 567 | 1,008 | 170 |
| Coleman | 405 | 45 | 119 | 250 | 414 | 43 | 101 | 195 | 339 | 37 |
| Corunna | 406 | 63 | 115 | 234 | 412 | 58 | 101 | 175 | 334 | 57 |
| Croswell | 357 | 60 | 88 | 174 | 322 | 46 | 84 | 151 | 281 | 44 |
| Crystal Falls | 1,308 | 92 | 470 | 1,082 | 1,644 | 75 | 250 | 545 | 870 | 72 |
| Detroit | 92,747 | 4,236 | 20,808 | 45,107 | 70,151 | 3,059 | 11,145 | 21,390 | 35,594 | 2,934 |
| Dowagiac | 1,160 | 137 | 399 | 729 | 1,265 | 121 | 333 | 479 | 933 | 119 |
| East Tawas | 564 | 51 | 155 | 210 | 416 | 49 | 150 | 185 | 384 | 48 |
| Eaton Rapids | 425 | 130 | 115 | 176 | 421 | 113 | 99 | 135 | 347 | 108 |
| Escanaba | 3,976 | 243 | 936 | 1,508 | 2,687 | 223 | 612 | 1,048 | 1,883 | 216 |
| Flint | 3,518 | 405 | 1,273 | 2,175 | 3,853 | 335 | 873 | 1,227 | 2,435 | 325 |
| Gladstone | 1,031 | 92 | 234 | 574 | 900 | 81 | 194 | 438 | 713 | 79 |
| Gladwin | 354 | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Grand Haven | 1,619 | 147 | 475 | 626 | 1,248 | 138 | 359 | 511 | 1,008 | 137 |
| Grand Ledge, 9 fr | 298 | 71 | 96 | 110 | 277 | 68 | 91 | 99 | 258 | 64 |
| Grand Ledge, 11 fr | 209 | 4 | 80 | 134 | 218 | 4 | 71 | 115 | 190 | 3 |
| Grand Rapids | 27,183 | 1,828 | 7,547 | 13,395 | 22,770 | 1,296 | 4,253 | 7,498 | 13,047 | 1,257 |
| Greenville | 933 | 182 | 393 | 422 | 997 | 151 | 258 | 305 | 714 | 145 |
| Hancock | 2,022 | 145 | 569 | 1,269 | 1,983 | 119 | 294 | 652 | 1,065 | 116 |
| Harrison | 232 | 38 | 40 | 94 | 172 | 29 | 38 | 81 | 148 | 26 |
| Harrisville | 193 | 22 | 52 | 80 | 154 | 22 | 50 | 75 | 147 | 21 |
| Hastings | 803 | 165 | 200 | 335 | 700 | 149 | 240 | 302 | 691 | 145 |
| Hillsdale | 1,150 | 250 | 331 | 498 | 1,079 | 219 | 276 | 342 | 837 | 216 |
| Holland | 2,886 | 131 | 730 | 1,280 | 2,141 | 108 | 548 | 902 | 1,558 | 106 |
| Hudson | 605 | 137 | 157 | 264 | 558 | 124 | 135 | 209 | 468 | 118 |
| Ionia | 1,570 | 130 | 399 | 719 | 1,248 | 121 | 172 | 437 | 730 | 119 |
| Iron Mountain | 3,294 | 166 | 775 | 1,870 | 2,811 | 143 | 705 | 1,479 | 2,327 | 136 |
| Ironwood | 3,562 | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Ishpeming | 4,050 | 356 | 1,338 | 1,538 | 3,232 | 342 | 1,298 | 1,486 | 3,126 | 328 |
| Jackson | 5,669 | 444 | 1,823 | 3,082 | 5,349 | 335 | 1,104 | 1,908 | 3,347 | 325 |

---

† Not legally graded.

## TABLE XVII.

*as reported by superintendents for the school year 1905-1906.*

| Average daily attendance. | | | Percentage of attendance. | | | | Number of regular teachers employed. | | | | | | | | Portion of superintendent's time devoted to supervision. | No. of special teachers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Grammar department. | Primary department. | Whole school. | High school department. | Grammar department. | Primary department. | Whole school. | High school department. | | Grammar department. | | Primary department. | | Whole school. | | | |
| | | | | | | | Men. | Women. | Men. | Women. | Men. | Women. | Men. | Women. | | |
| 47,447 | 78,473 | 143,622 | 94 | 94 | 91 | 94 | 245.6 | 535.2 | 62.4 | 1,450.2 | 14 | 2,214.9 | 384 | 4,202 | ...... | 162 |
| 499 | 687 | 1,447 | 97 | 94 | 94 | 95 | 2 | 7 | .... | 14 | .... | 21 | 3 | 42 | All | 5 |
| 275 | 397 | 766 | 96 | 94 | 95 | 95 | 3.2 | 3 | .... | 7 | .... | 11 | 4 | 21 | 8-10 | 2 |
| 152 | 277 | 499 | 96 | 95 | 94 | 95 | 1.3 | 2 | .... | 5 | .... | 8 | 2 | 15 | 7-10 | 1 |
| .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| ‡ 1,619 | ........ | 2,125 | 95 | ‡95 | .... | 95 | 8 | 11.2 | .... | ‡ 48 | .... | ........ | 9 | 60 | All | 4 |
| .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| 129 | 161 | 340 | 90 | 89 | 87 | 88 | .8 | 1 | .... | 3 | .... | 4 | 1 | 8 | 2-10 | .... |
| 153 | 125 | 357 | 96 | 91 | 95 | 94 | .8 | 2 | .... | 6 | .... | 2 | 1 | 10 | 2-10 | .... |
| 974 | 1,899 | 3,267 | 98 | 97 | 96 | 97 | 5 | 11 | 3 | 26 | .... | 57 | 9 | 94 | All | 5 |
| 1,687 | 3,428 | 5,742 | 97 | 98 | 98 | 98 | 13 | 16 | 2 | 56 | 3 | 98 | 19 | 170 | All | 5 |
| 55 | 100 | 185 | 94 | 91 | 91 | 92 | .8 | 1 | 1 | 1 | .... | 3 | 2 | 5 | 2-10 | .... |
| 196 | 295 | 568 | 98 | 95 | 90 | 94 | .5 | 3.5 | .... | 6.5 | .... | 9 | 1 | 19 | 1-2 | 2 |
| 418 | 582 | 1,203 | 98 | 95 | 95 | 96 | 2 | 5 | .... | 12 | .... | 17 | 3 | 34 | All | 1 |
| 295 | 550 | 953 | 98 | 98 | 96 | 97 | 2 | 3.1 | .... | 8 | .... | 13 | 2 | 25 | 9-10 | 1 |
| 238 | 375 | 740 | 97 | 96 | 94 | 95 | 1.1 | 5 | .... | 7 | .... | 12 | 2 | 24 | 9-10 | 1 |
| 490 | 860 | 1,535 | 97 | 94 | 95 | 95 | ...... | 7 | .... | 14 | .... | 19 | 1 | 40 | All | 1 |
| 179 | 234 | 518 | 96 | 93 | 91 | 93 | 1 | 5 | .... | 6 | .... | 9 | 2 | 20 | All | 1 |
| 242 | 341 | 751 | 98 | 95 | 94 | 96 | 1.1 | 5 | .... | 7 | .... | 11 | 2 | 23 | 9-10 | .... |
| 297 | 600 | 1,000 | 97 | 93 | 92 | 94 | 1.3 | 2 | .9 | 7.8 | .8 | 15.2 | 4 | 25 | All | 1 |
| 120 | 154 | 327 | 96 | 95 | 84 | 90 | .8 | 2 | .... | 4 | .... | 4 | 1 | 10 | 2-10 | .... |
| 258 | 537 | 965 | 97 | 97 | 95 | 96 | 3.1 | 2.5 | .... | 10 | .... | 15.5 | 4 | 28 | 9-10 | 2 |
| 88 | 162 | 287 | 86 | 88 | 80 | 84 | 1.8 | 1 | .... | 2 | .... | 4 | 2 | 7 | 2-10 | .... |
| 98 | 166 | 321 | 98 | 97 | 95 | 97 | .5 | 2 | .... | 4 | .... | 5 | 1 | 11 | 1-2 | 2 |
| 81 | 147 | 272 | 94 | 97 | 97 | 96 | 1.7 | ...... | .... | 2 | .... | 3 | 2 | 5 | 3-10 | .... |
| 237 | 522 | 831 | 96 | 94 | 95 | 95 | .2 | 4 | .... | 6 | .... | 15 | 1 | 25 | 8-10 | 3 |
| 10,694 | 20,161 | 33,789 | 96 | 96 | 92 | 95 | 43 | 90 | 23 | 362 | 5 | 555 | 72 | 1,007 | All | 6 |
| 328 | 466 | 913 | 98 | 98 | 98 | 98 | 2.3 | 3 | 1 | 9 | .... | 13 | 4 | 25 | 7-10 | 1 |
| 140 | 160 | 348 | 99 | 93 | 86 | 93 | .8 | 1 | .... | 3 | .... | 4 | 1 | 8 | 2-10 | 1 |
| 92 | 130 | 330 | 95 | 93 | 96 | 95 | 1.5 | 3 | .... | 3 | .... | 4 | 2 | 10 | 1-2 | 2 |
| 584 | 1,002 | 1,802 | 97 | 93 | 93 | 94 | 2 | 6 | ... | 16 | .... | 23 | 3 | 45 | All | 2 |
| 781 | 1,215 | 2,321 | 97 | 89 | 99 | 95 | 3 | 11 | .... | 22 | .... | 35 | 4 | 68 | All | 4 |
| 191 | 422 | 692 | 98 | 98 | 96 | 98 | 1.4 | 2 | .... | 5 | .... | 9 | 2 | 16 | 6-10 | .... |
| .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| 355 | 501 | 993 | 99 | 99 | 98 | 98 | .1 | 5 | .... | 10 | .... | 14 | 1 | 29 | 9-10 | 1 |
| 84 | 91 | 239 | 94 | 92 | 91 | 92 | 1.8 | 2.2 | .... | 2.3 | .... | 2.5 | 2 | 7 | 2-10 | 1 |
| 59 | 50 | 112 | 75 | 83 | 43 | 59 | 1 | 1 | .. | 2 | .... | 1 | 1 | 4 | ...... | 1 |
| 4,057 | 7,092 | 12,406 | 97 | 94 | 93 | 95 | 15.3 | 34 | 5.3 | 143.2 | 1.4 | 220.8 | 23 | 398 | All | 4 |
| 253 | 280 | 678 | 96 | 98 | 92 | 95 | 1.4 | 4.4 | ... | 6.5 | .... | 7.1 | 2 | 18 | 6-10 | 2 |
| 292 | 631 | 1,039 | 97 | 99 | 96 | 97 | 3.2 | 3 | ... | 6 | .... | 13 | 4 | 22 | 8-10 | .... |
| 32 | 64 | 122 | 89 | 98 | 81 | 93 | 1 | ...... | 1 | ........ | .... | 2 | 2 | 2 | ...... | .... |
| 46 | 73 | 140 | 95 | 92 | 97 | 95 | .8 | ...... | .... | 1 | .... | 2 | 1 | 3 | 2-10 | .... |
| 229 | 290 | 664 | 97 | 95 | 96 | 96 | 2.3 | 4 | .... | 5 | .... | 10 | 3 | 19 | 7-10 | 2 |
| 269 | 331 | 816 | 96 | 96 | 96 | 96 | 2.2 | 5 | ... | 8 | .... | 10 | 3 | 23 | 8-10 | 4 |
| 534 | 864 | 1,504 | 96 | 97 | 98 | 97 | 2 | 4 | .... | 13 | .... | 21 | 3 | 38 | All | 2 |
| 128 | 201 | 447 | 95 | 95 | 96 | 95 | 1.4 | 3 | .... | 4 | .... | 7 | 2 | 14 | 6-10 | .... |
| 156 | 390 | 665 | 98 | 90 | 89 | 91 | 1.6 | 6 | .... | 10.4 | .... | 12.6 | 2 | 29 | 1-2 | 3 |
| 659 | 1,422 | 2,217 | 95 | 95 | 95 | 95 | 2 | 1.3 | 3 | 17 | .... | 36.7 | 6 | 55 | All | 4 |
| .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| 1,178 | 1,298 | 2,804 | 90 | 91 | 90 | 90 | 1 | 11 | .... | 20 | .... | 41 | 2 | 72 | All | 5 |
| 1,065 | 1,820 | 3,210 | 97 | 96 | 94 | 96 | 4.2 | 10 | 2 | 29 | .... | 53 | 7 | 92 | 8-10 | 2 |

‡ Includes grammar and primary department.

## TABLE XVII.—Continued.

| Incorporated cities. | School population from inspectors' report. | Enrollment. | | | | Average number belonging. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | High school department. | Grammar department. | Primary department. | Whole school. | High school department. | Grammar department. | Primary department. | Whole school. | High school department. |
| Kalamazoo | 7,807 | 599 | 2,299 | 3,652 | 6,550 | 488 | 1,598 | 2,524 | 4,610 | 474 |
| Lansing | 5,037 | 421 | 1,253 | 2,054 | 3,728 | 359 | 955 | 1,509 | 2,823 | 348 |
| Lapeer | 648 | 136 | 170 | 275 | 581 | 126 | 150 | 201 | 477 | 120 |
| Ludington | 2,513 | 170 | 543 | 1,009 | 1,722 | 154 | 442 | 822 | 1,418 | 148 |
| Mackinac Island | 223 | 75 | 67 | 64 | 206 | 44 | 42 | 44 | 130 | 40 |
| Manistee | 4,073 | 284 | 835 | 1,493 | 2,612 | 240 | 640 | 1,230 | 2,110 | 236 |
| Manistique | 1,508 | 125 | 421 | 732 | 1,278 | 109 | 280 | 507 | 896 | 106 |
| Marine City | 1,233 | 85 | 221 | 406 | 712 | 78 | 188 | 321 | 587 | 73 |
| Marquette | 3,187 | 217 | 620 | 1,333 | 2,170 | 196 | 517 | 948 | 1,661 | 191 |
| Marshall | 972 | 198 | 263 | 303 | 764 | 175 | 228 | 265 | 668 | 170 |
| Mason | 406 | 103 | 128 | 189 | 420 | 96 | 115 | 142 | 353 | 94 |
| Menominee | 3,911 | 203 | 1,187 | 1,737 | 3,127 | 177 | 750 | 1,249 | 2,176 | 171 |
| Midland | 653 | 122 | 251 | 383 | 756 | 102 | 176 | 305 | 583 | 96 |
| Monroe | 1,771 | 116 | 269 | 453 | 838 | 109 | 209 | 347 | 665 | 107 |
| Mt. Clemens | 2,196 | 129 | 636 | 764 | 1,529 | 107 | 335 | 562 | 1,004 | 104 |
| Mt. Pleasant | 1,138 | 205 | 129 | 200 | 534 | 182 | 100 | 143 | 425 | 178 |
| Muskegon | 6,720 | 704 | 2,109 | 3,081 | 5,894 | 495 | 1,166 | 1,839 | 3,500 | 479 |
| Muskegon Heights | 342 | 14 | 82 | 117 | 213 | 12 | 72 | 110 | 194 | 11 |
| Negaunee | 2,280 | 171 | 538 | 946 | 1,655 | 125 | 354 | 730 | 1,209 | 118 |
| Niles | 1,304 | 140 | 352 | 546 | 1,038 | 134 | 322 | 486 | 942 | 131 |
| North Muskegon | 128 | ...... | 45 | 47 | 92 | ...... | 40 | 43 | 83 | ...... |
| Norway | 1,626 | 86 | 229 | 751 | 1,066 | 79 | 204 | 600 | 883 | 78 |
| Omer | 182 | 35 | 82 | 58 | 175 | 34 | 80 | 54 | 168 | 28 |
| Onaway | 705 | 33 | 123 | 460 | 616 | 26 | 99 | 278 | 403 | 25 |
| Owosso | 2,477 | 190 | 662 | 1,183 | 2,035 | 172 | 498 | 817 | 1,487 | 167 |
| Petoskey | 1,552 | 143 | 517 | 585 | 1,245 | 105 | 381 | 408 | 894 | 100 |
| Pontiac | 2,352 | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Port Huron | 5,569 | 419 | 983 | 1,813 | 3,215 | 357 | 913 | 1,600 | 2,870 | 342 |
| Rose City | 292 | 37 | 76 | 123 | 236 | 31 | 66 | 109 | 206 | 27 |
| Saginaw | 8,296 | 760 | 1,934 | 2,610 | 5,304 | 641 | 1,525 | 1,983 | 4,149 | 617 |
| Saginaw, W. S. | 5,722 | 296 | 1,257 | 1,858 | 3,411 | 242 | 968 | 1,332 | 2,542 | 234 |
| St. Clair | 759 | 84 | 228 | 412 | 724 | 78 | 183 | 273 | 534 | 75 |
| St. Ignace | 629 | 58 | 185 | 235 | 478 | 53 | 165 | 168 | 386 | 50 |
| St. Johns | 867 | 137 | 277 | 482 | 896 | 119 | 224 | 392 | 735 | 116 |
| St. Joseph | 1,519 | 124 | 357 | 638 | 1,119 | 119 | 313 | 525 | 957 | 116 |
| St. Louis | 665 | 80 | 159 | 318 | 557 | 64 | 183 | 266 | 513 | 63 |
| Sandusky | 317 | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Sault Ste. Marie | 3,613 | 258 | 723 | 1,561 | 2,542 | 222 | 683 | 1,358 | 2,263 | 215 |
| South Haven | 1,060 | 165 | 336 | 591 | 1,092 | 138 | 256 | 407 | 801 | 135 |
| Standish | 438 | 57 | 156 | 182 | 395 | 47 | 136 | 161 | 344 | 38 |
| Stanton | 392 | 64 | 98 | 175 | 337 | 55 | 80 | 120 | 255 | 54 |
| Sturgis | 738 | 75 | 203 | 328 | 606 | 68 | 158 | 264 | 490 | 63 |
| Tawas City | 493 | 33 | 123 | 145 | 301 | 30 | 102 | 129 | 261 | 29 |
| Three Rivers | 978 | * 260 | ...... | 655 | 915 | * 228 | ...... | 506 | 734 | * 223 |
| Traverse City | 2,786 | 352 | 1,004 | 1,312 | 2,668 | 321 | 710 | 1,062 | 2,093 | 309 |
| West Branch | 539 | 69 | 175 | 298 | 542 | 63 | 153 | 220 | 436 | 59 |
| Wyandotte | 2,227 | 96 | 255 | 689 | 1,040 | 89 | 232 | 615 | 936 | 84 |
| Yale | 387 | 54 | 108 | 180 | 342 | 42 | 100 | 160 | 302 | 38 |
| Ypsilanti | 1,629 | 252 | 338 | 634 | 1,224 | 220 | 284 | 473 | 977 | 211 |

* Includes high school and grammar department.

## TABLE XVII.—Continued.

| Average daily attendance. | | | Percentage of attendance. | | | | Number of regular teachers employed. | | | | | | | | Portion of superintendent's time devoted to supervision. | No. of special teachers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | High school department. | | Grammar department. | | Primary department. | | Whole school. | | | |
| Grammar department. | Primary department. | Whole school. | High school department. | Grammar department. | Primary department. | Whole school. | Men. | Women. | Men. | Women. | Men. | Women. | Men. | Women. | | |
| 1,506 | 2,343 | 4,323 | 97 | 94 | 92 | 94 | 6 | 18 | 2.2 | 41.5 | .8 | 65.5 | 10 | 125 | All | 10 |
| 917 | 1,441 | 2,706 | 97 | 96 | 95 | 96 | 5 | 10 | 1 | 29 | .... | 40 | 7 | 79 | All | 4 |
| 126 | 160 | 406 | 95 | 84 | 80 | 85 | .3 | 6 | .... | 4 | .... | 8 | 1 | 18 | 7-10 | 1 |
| 428 | 792 | 1,368 | 96 | 97 | 96 | 96 | 2 | 5 | .... | 14 | .... | 23 | 3 | 42 | All | 2 |
| 40 | 40 | 120 | 94 | 96 | 91 | 94 | 1 | 1 | .... | 1 | .... | 1 | 1 | 3 | ...... | .... |
| 612 | 1,178 | 2,026 | 98 | 96 | 95 | 96 | 3 | 9 | .... | 18 | .... | 41 | 4 | 68 | All | 2 |
| 262 | 477 | 845 | 97 | 94 | 93 | 95 | 2.1 | 3 | .... | 8 | .... | 14 | 3 | 25 | 9-10 | 1 |
| 176 | 305 | 554 | 94 | 93 | 93 | 93 | 1.2 | 2 | .... | 5 | .... | 8 | 2 | 15 | 8-10 | 1 |
| 497 | 893 | 1,581 | 97 | 96 | 94 | 96 | 2 | 6 | .... | 13.5 | 1 | 30.5 | 4 | 50 | All · | 5 |
| 219 | 257 | 646 | 96 | 96 | 97 | 96 | 2.2 | 5 | .... | 8 | .... | 9 | 3 | 22 | 8-10 | 2 |
| 110 | 125 | 329 | 98 | 96 | 88 | 93 | .4 | 4 | .... | 3 | .... | 4 | 1 | 11 | 6-10 | 1 |
| 697 | 1,170 | 2,038 | 97 | 94 | 94 | 95 | 4 | 4 | .... | 17 | .... | 30 | 5 | 51 | All | 3 |
| 168 | 276 | 540 | 94 | 95 | 91 | 93 | 1.4 | 2 | .... | 5 | .... | 7 | 2 | 14 | 6-10 | .... |
| 198 | 316 | 621 | 98 | 94 | 91 | 94 | 2.4 | 3 | .... | 5 | .... | 9 | 3 | 17 | 6-10 | 2 |
| 320 | 523 | 947 | 97 | 95 | 93 | 95 | 3 | 4 | .... | 8 | .... | 16 | 4 | 28 | All | 1 |
| 90 | 139 | 407 | 96 | 89 | 92 | 92 | 2.3 | 5 | 1 | 3 | .... | 5 | 4 | 13 | 7-10 | 1 |
| 1,128 | 1,746 | 3,353 | 98 | 97 | 94 | 96 | 4 | 14 | .... | 53 | .... | 33 | 5 | 100 | All | 4 |
| 67 | 193 | 181 | 92 | 93 | 94 | 93 | .8 | ...... | .... | 3 | .... | 4 | 1 | 7 | 2-10 | .... |
| 332 | 639 | 1,189 | 95 | 93 | 95 | 95 | 1 | 5 | .... | 9 | .... | 17 | 2 | 31 | All | 1 |
| 308 | 469 | 908 | 98 | 96 | 97 | 97 | 1.2 | 4 | .... | 7 | .... | 12 | 2 | 23 | 8-10 | 1 |
| 35 | 48 | 83 | .... | 80 | 80 | 80 | ...... | ...... | .... | 1 | .... | 1 | ...... | 2 | ...... | .... |
| 191 | 554 | 823 | 98 | 93 | 90 | 93 | 2.3 | 3 | .... | 4 | .... | 14 | 3 | 21 | 7-10 | 2 |
| 71 | 43 | 142 | 82 | 89 | 80 | 84 | 1 | ...... | .... | 2 | .... | 1 | 1 | 3 | ...... | .... |
| 83 | 241 | 349 | 96 | 84 | 87 | 87 | .7 | 2 | 1 | 2 | 1 | 5 | 3 | 9 | 3-10 | .... |
| 465 | 773 | 1,405 | 97 | 95 | 94 | 95 | 4 | 5 | .... | 15 | ... | 22 | 5 | 42 | All | 2 |
| 364 | 373 | 837 | 95 | 95 | 91 | 94 | 3 | 3 | .... | 11 | .... | 13 | 4 | 27 | All | 2 |
| 887 | 1,521 | 2,750 | 97 | 96 | 95 | 96 | 3 | 10 | .... | 30 | .... | 41 | 4 | 81 | All | 1 |
| 55 | 78 | 160 | 89 | 92 | 84 | 88 | 1 | ...... | .... | 2 | .... | 2 | 1 | 4 | ...... | .... |
| 1,477 | 1,900 | 3,994 | 96 | 97 | 97 | 97 | 10 | 25 | 6 | 47 | .... | 68 | 17 | 140 | All | 3 |
| 919 | 1,300 | 2,153 | 97 | 95 | 98 | 96 | 2 | 9 | 1 | 25 | .... | 40 | 4 | 74 | All | 4 |
| 170 | 253 | 498 | 96 | 93 | 93 | 94 | .3 | 3 | .... | 4.5 | .... | 6.5 | 1 | 14 | 7-10 | 1 |
| 157 | 153 | 300 | 94 | 95 | 91 | 94 | 2 | ...... | 1 | 3 | ... | 5 | 3 | 8 | ...... | .... |
| 221 | 319 | 656 | 97 | 99 | 94 | 96 | 1.4 | 4 | .... | 6.8 | .... | 10.2 | 2 | 21 | 6-10 | 2 |
| 504 | 504 | 924 | 97 | 97 | 96 | 96 | 3 | 3 | .... | 8 | .... | 16 | 4 | 27 | All | 2 |
| 178 | - 252 | 493 | 98 | 97 | 95 | 96 | .8 | 4 | .... | 4 | .... | 6 | 1 | 14 | 2-10 | 2 |
| 651 | 1,302 | 2,168 | 97 | 96 | 96 | 96 | 4 | 5 | 5 | 14 | 1 | 27 | 11 | 46 | All | 4 |
| 231 | 410 | 776 | 98 | 93 | 96 | 96 | 1.1 | 4 | 1 | 7 | .... | 10 | 3 | 21 | 9-10 | 1 |
| 118 | 137 | 293 | 88 | 87 | 87 | 87 | .8 | 2 | .... | 3 | .... | 3 | 1 | 8 | 2-10 | .... |
| 74 | 119 | 247 | 96 | 92 | 93 | 93 | .5 | 2 | .... | 2 | .... | 3 | 1 | 7 | 1-2 | .... |
| 148 | 256 | 467 | 93 | 94 | 96 | 94 | .5 | 3 | .... | 5 | .... | 7 | 1 | 15 | 1-2 | 1 |
| 91 | 115 | 235 | 97 | 89 | 89 | 92 | .8 | 1 | .... | 2.7 | .... | 3.3 | 1 | 7 | 2-10 | .... |
| .......... | 459 | 682 | *97 | ... | 91 | 93 | * 2.1 | * 6 | .... | ........ | .... | 17 | 3 | 23 | 9-10 | 2 |
| 651 | 1,021 | 1,981 | 98 | 95 | 93 | 95 | 4 | 7 | 1 | 17 | .... | 28 | 6 | 52 | All | 2 |
| 148 | 209 | 416 | 86 | 95 | 95 | 93 | .9 | 1 | .... | 3 | .... | 4 | 1 | 8 | 1-10 | .... |
| 214 | 508 | 896 | 94 | 92 | 97 | 94 | ...... | 5 | .... | 6 | .... | 15 | 1 | 26 | All | 1 |
| 92 | 150 | 280 | 90 | 92 | 93 | 92 | .7 | 2 | .... | 3 | .... | 4 | 1 | 9 | 3-10 | .... |
| 265 | 440 | 916 | 96 | 93 | 93 | 94 | 3.2 | 5 | .... | 7.5 | .... | 13.5 | 4 | 26 | 8-10 | 4 |

## TABLE XVII.—Continued.

| Incorporated villages. | School population from inspector's report. | Enrollment. | | | | Average number belonging. | | | | Average daily attendance. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | High school department. | Grammar department. | Primary department. | Whole school. | High school department. | Grammar department. | Primary department. | Whole school. | High school department. | Grammar department. | Primary department. | Whole school. |
| Addison | 202 | 45 | 41 | 110 | 196 | 44 | 38 | 110 | 192 | 42 | 33 | 91 | 166 |
| Alanson | 234 | 29 | 79 | 96 | 204 | 28 | 65 | 75 | 168 | 24 | 56 | 70 | 150 |
| Algonac | 463 | 26 | 103 | 230 | 359 | 21 | 79 | 192 | 292 | 20 | 36 | 178 | 234 |
| Allegan | 744 | 184 | 261 | 270 | 715 | 160 | 248 | 245 | 653 | 148 | 235 | 228 | 611 |
| Almont | 234 | 47 | 61 | 110 | 218 | 42 | 53 | 86 | 181 | 39 | 48 | 72 | 159 |
| Applegate | 87 | ..... | ..... | ..... | ‡ 77 | ..... | ..... | ..... | ‡ 75 | ..... | ..... | ..... | ‡ 50 |
| Armada | 220 | 67 | 68 | 100 | 235 | 63 | 61 | 85 | 209 | 62 | 59 | 77 | 198 |
| Ashley | 190 | 50 | 69 | 91 | 210 | 39 | 48 | 45 | 132 | 35 | 40 | 39 | 114 |
| Athens | 177 | 44 | 58 | 89 | 191 | 39 | 52 | 80 | 171 | 39 | 49 | 67 | 155 |
| †Atlanta | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Attica | 103 | 9 | 33 | 56 | 98 | 7 | 31 | 54 | 92 | 8 | 29 | 28 | 65 |
| Augusta | 155 | 61 | 66 | 38 | 165 | 56 | 62 | 37 | 155 | 48 | 48 | 29 | 125 |
| Baldwin | 132 | 5 | 87 | 63 | 155 | 4 | 80 | 50 | 134 | 4 | 74 | 41 | 119 |
| Bancroft | 144 | 24 | 43 | 74 | 141 | 22 | 36 | 61 | 119 | 21 | 35 | 58 | 114 |
| Bangor | 397 | 116 | 115 | 169 | 400 | 100 | 102 | 143 | 345 | 94 | 89 | 128 | 311 |
| Baraga | 1,009 | 25 | 221 | 383 | 629 | 20 | 200 | 350 | 570 | 19 | 185 | 315 | 519 |
| Bear Lake | 179 | 21 | 53 | 75 | 149 | 20 | 50 | 70 | 140 | 18 | 45 | 57 | 120 |
| Bellaire | 398 | 59 | 124 | 195 | 378 | 52 | 96 | 165 | 313 | 50 | 91 | 158 | 299 |
| Belleville | 157 | 31 | 80 | 44 | 155 | 27 | 67 | 39 | 133 | 25 | 63 | 34 | 122 |
| Bellevue | 287 | 76 | 78 | 111 | 265 | 70 | 74 | 90 | 234 | 67 | 71 | 79 | 217 |
| Benzonia | 232 | 35 | 73 | 90 | 198 | 32 | 65 | 75 | 172 | 20 | 53 | 62 | 135 |
| Berrien Springs | 217 | 38 | 68 | 91 | 197 | 36 | 64 | 83 | 183 | 35 | 59 | 71 | 165 |
| Birmingham | 381 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Blissfield, No. 1 fr | 191 | 31 | 36 | 99 | 166 | 26 | 33 | 85 | 144 | 25 | 30 | 78 | 133 |
| Blissfield, No. 2 fr | 243 | 48 | 86 | 143 | 277 | 40 | 74 | 90 | 204 | 37 | 70 | 87 | 194 |
| Bloomingdale | 152 | 74 | 31 | 36 | 141 | 74 | 31 | 36 | 141 | 3 | 30 | 34 | 137 |
| Boardman | 203 | 44 | 32 | 105 | 181 | 36 | 26 | 94 | 156 | 34 | 24 | 31 | 89 |
| Boyne City | 968 | 59 | 253 | 508 | 820 | 52 | 201 | 391 | 644 | 50 | 189 | 348 | 587 |
| Boyne Falls | 202 | 35 | 50 | 45 | 130 | 33 | 49 | 43 | 125 | 22 | 39 | 30 | 91 |
| Breedsville | 103 | ..... | 44 | 37 | 81 | ..... | 28 | 32 | 60 | ..... | 22 | 25 | 47 |
| Brighton | 189 | 46 | 63 | 80 | 189 | 42 | 61 | 69 | 172 | 41 | 58 | 67 | 166 |
| Britton | 136 | 34 | 44 | 50 | 128 | 33 | 42 | 44 | 119 | 33 | 36 | 30 | 99 |
| Bronson | 291 | 58 | 113 | 41 | 212 | 58 | 113 | 41 | 212 | 56 | 110 | 38 | 204 |
| Brooklyn | 155 | 51 | 56 | 67 | 171 | 47 | 55 | 62 | 164 | 44 | 52 | 58 | 154 |
| Brown City | 218 | 45 | 56 | 128 | 229 | 45 | 56 | 128 | 229 | 39 | 49 | 87 | 175 |
| Buchanan | 418 | 79 | 130 | 204 | 413 | 72 | 101 | 151 | 324 | 70 | 91 | 138 | 299 |
| Burlington | 102 | 33 | 22 | 40 | 95 | 28 | 20 | 30 | 78 | 26 | 18 | 19 | 63 |
| Burr Oak | 168 | 42 | 60 | 58 | 160 | 40 | 59 | 54 | 153 | 35 | 57 | 50 | 142 |
| Byron | 127 | 15 | 55 | 42 | 112 | 15 | 54 | 42 | 111 | 12 | 47 | 32 | 91 |
| Caledonia | 167 | 54 | 69 | 39 | 162 | 48 | 65 | 35 | 148 | 43 | 55 | 31 | 129 |
| Calumet | 7,942 | 336 | 1,160 | 4,535 | 6,031 | 296 | 1,071 | 4,285 | 5,652 | 280 | 961 | 3,844 | 5.085 |
| Camden | 115 | 37 | 38 | 48 | 123 | 31 | 35 | 41 | 107 | 29 | 33 | 38 | 100 |
| Capac | 233 | 52 | 89 | 103 | 244 | 40 | 66 | 72 | 178 | 34 | 60 | 50 | 144 |
| Caro | 566 | 143 | 184 | 278 | 605 | 130 | 145 | 212 | 487 | 126 | 140 | 201 | 467 |
| Carson City | 274 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Carsonville | 211 | 64 | 61 | 55 | 180 | 55 | 50 | 45 | 150 | 48 | 44 | 34 | 126 |
| Caseville | 193 | 36 | 57 | 79 | 172 | 27 | 51 | 62 | 140 | 23 | 37 | 43 | 103 |
| Casnovia | 94 | 24 | 25 | 54 | 103 | 22 | 21 | 42 | 85 | 21 | 20 | 39 | 80 |
| Cass City | 440 | 113 | 107 | 231 | 451 | 93 | 91 | 187 | 371 | 90 | 87 | 178 | 355 |
| Cassopolis | 274 | 54 | 106 | 116 | 276 | 48 | 92 | 95 | 235 | 46 | 90 | 89 | 225 |
| Cedar Springs | 291 | 49 | 66 | 136 | 251 | 46 | 62 | 130 | 238 | 45 | 57 | 108 | 210 |
| Central Lake | 360 | 44 | 94 | 170 | 308 | 35 | 75 | 123 | 233 | 33 | 70 | 113 | 216 |
| Centreville | 171 | 39 | 52 | 88 | 179 | 32 | 30 | 62 | 124 | 30 | 28 | 58 | 116 |
| Chelsea | 492 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Chesaning | 307 | 68 | 117 | 142 | 327 | 57 | 88 | 105 | 250 | 56 | 83 | 96 | 235 |

---

†Not legally graded.
‡Included in Lenox.

## TABLE XVII.—Continued.

| Percentage of attendance. High school department. | Percentage of attendance. Grammar department. | Percentage of attendance. Primary department. | Percentage of attendance. Whole school. | Number of regular teachers employed. High school department. Men. | Number of regular teachers employed. High school department. Women. | Grammar department. Men. | Grammar department. Women. | Primary department. Men. | Primary department. Women. | Whole school. Men. | Whole school. Women. | Portion of superintendent's time devoted to supervision. | No. of special teachers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 95 | 87 | 83 | 88 | 1.9 | ...... | 1 | ...... | ...... | 2 | 3 | 2 | 1-10 | ...... |
| 85 | 81 | 93 | 82 | 1 | ...... | ...... | 2 | ...... | 2 | 1 | 4 | ...... | ...... |
| 95 | 46 | 92 | 80 | .8 | 1 | ...... | 2 | ...... | 5 | 1 | 8 | 2-10 | ...... |
| 93 | 95 | 93 | 94 | 1.5 | 4 | ...... | 5 | ...... | 8 | 2 | 17 | 1-2 | 2 |
| 91 | 89 | 84 | 88 | .9 | 1 | ...... | 2 | ...... | 2 | 1 | 5 | 1-10 | ...... |
| ...... | ...... | ...... | 66 | ...... | ...... | ...... | ...... | ...... | ...... | 1 | ...... | ...... | ...... |
| 98 | 95 | 90 | 94 | .9 | 1 | ...... | 2 | ...... | 2 | 1 | 5 | 1-10 | ...... |
| 90 | 84 | 87 | 87 | 1 | 1 | ...... | 2 | ...... | 1 | 1 | 4 | ...... | ...... |
| 95 | 96 | 90 | 94 | .9 | 1 | ...... | 1 | ...... | 2 | 1 | 4 | 1 20 | ...... |
| ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| 96 | 94 | 52 | 81 | 1 | ...... | ...... | .5 | ...... | .5 | 1 | 1 | ...... | ...... |
| 86 | 77 | 79 | 81 | .7 | 2 | ...... | 2 | ...... | 1 | 1 | 5 | 3-10 | ...... |
| 87 | 85 | 65 | 79 | ...... | ...... | .9 | 1 | ...... | 1 | 1 | 2 | 1-10 | ...... |
| 95 | 97 | 95 | 95 | .9 | 1 | ...... | 1 | ...... | 2 | 1 | 4 | 1-10 | ...... |
| 94 | 87 | 82 | 90 | 1.8 | 2 | ...... | 2 | ...... | 3 | 2 | 7 | 2-10 | ...... |
| 95 | 92 | 90 | 91 | .6 | 1 | 2 | 3 | ...... | 7 | 3 | 11 | 4-10 | ...... |
| 90 | 90 | 81 | 87 | 1 | ...... | 1 | ...... | ...... | 2 | 2 | 2 | ...... | |
| 96 | 95 | 96 | 96 | 1 | 1 | ...... | 2 | ...... | 5 | 1 | 8 | ...... | 1 |
| 92 | 92 | 87 | 90 | .8 | ...... | ...... | 2 | ...... | •1 | 1 | 3 | 2-10 | ...... |
| 96 | 96 | 88 | 93 | .7 | 2 | ...... | 2 | ...... | 2 | 1 | 6 | 3-10 | 1 |
| 63 | 81 | 82 | 78 | .8 | 1 | ...... | 1 | ...... | 2 | 1 | 4 | 2-10 | ...... |
| 99 | 95 | 94 | 96 | .8 | 1 | ...... | 2 | ...... | 2 | 1 | 5 | 2-10 | ...... |
| ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| 96 | 92 | 93 | 94 | 1 | ...... | ...... | 1 | ...... | 2 | 1 | 3 | ...... | ...... |
| 92 | 94 | 97 | 94 | .9 | 1 | ...... | 2 | ...... | 2 | 1 | 5 | 1-10 | ...... |
| 98 | 96 | 94 | 97 | .8 | 1 | ...... | 1 | ...... | 1 | 1 | 3 | 2-10 | ...... |
| 94 | 92 | 33 | 57 | 1 | ...... | ...... | 1 | ...... | 2 | 1 | 3 | ...... | ...... |
| 96 | 94 | 89 | 93 | .2 | 3 | ...... | 5 | ...... | 10 | 1 | 18 | 8 10 | ...... |
| 66 | 80 | 09 | 72 | 1 | 1 | ...... | 1 | ...... | 1 | 1 | 3 | ...... | ...... |
| ...... | 78 | 78 | 78 | ...... | ...... | 1 | ...... | ...... | 1 | 1 | 1 | ...... | ...... |
| 98 | 96 | 97 | 97 | .9 | 1 | ...... | 2 | ...... | 2 | 1 | 5 | 1-20 | ...... |
| 95 | 95 | 87 | 92 | ...... | 1 | ...... | 1 | ...... | 1 | ...... | 3 | ...... | ...... |
| 96 | 97 | 92 | 96 | .8 | 1 | ...... | 4 | ...... | 2 | 1 | 7 | 2-10 | ...... |
| 94 | 94 | 94 | 94 | .9 | 1 | ...... | 1 | ...... | 2 | 1 | 4 | 1-10 | ...... |
| 87 | 88 | 68 | 76 | 1 | ...... | 1 | ...... | ...... | 2 | 2 | 2 | ...... | ...... |
| 97 | 90 | 91 | 92 | 1.6 | 2 | ...... | 4 | ...... | 4 | 2 | 10 | 4-10 | 1 |
| 93 | 90 | 63 | 83 | 1 | ...... | ...... | 1 | ...... | 1 | 1 | 2 | ...... | ...... |
| 87 | 96 | 92 | 91 | .8 | 2 | ...... | 2 | ...... | 2 | 1 | 6 | 2-10 | ...... |
| 80 | 87 | 76 | 82 | 1 | ...... | ...... | 2 | ...... | 1 | 1 | 3 | ...... | ...... |
| 89 | 84 | 88 | 87 | 1 | ...... | ...... | 2 | ...... | 1 | 1 | 3 | ...... | ...... |
| 94 | 89 | 89 | 89 | 8 | 9 | 2 | 38 | 1 | 102 | 11 | 149 | All | 3 |
| 93 | 94 | 94 | 94 | .9 | 1 | ...... | 1.2 | ...... | 1.8 | 1 | 4 | 1-10 | ...... |
| 85 | 90 | 69 | 81 | .8 | 1 | 1 | .5 | ...... | 1.5 | 2 | 3 | 2-10 | ...... |
| 97 | 96 | 90 | 94 | 1.5 | 3 | ...... | 4 | ...... | 6 | 2 | 13 | 1-2 | 1 |
| ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| 87 | 88 | 75 | 83 | 1 | ...... | ...... | 1 | ...... | 1 | 1 | 2 | ...... | ...... |
| 86 | 72 | 69 | 73 | 1 | ...... | ...... | 1 | ...... | 1 | 1 | 2 | ...... | ...... |
| 95 | 95 | 93 | 94 | 1 | ...... | ...... | 1 | ...... | 1 | 1 | 2 | ...... | ...... |
| 97 | 96 | 95 | 96 | .8 | 2 | 1 | 2 | ...... | 4 | 2 | 8 | 2-10 | 1 |
| 96 | 91 | 90 | 92 | .6 | 2 | ...... | 3 | ...... | 3 | 1 | 8 | 4-10 | ...... |
| 98 | 93 | 83 | 91 | .9 | 1.5 | ...... | 2 | ...... | 2.5 | 1 | 6 | 1-10 | ...... |
| 94 | 93 | 92 | 93 | .7 | 1.5 | ...... | 2.5 | ...... | 2 | 1 | 6 | 3-10 | 2 |
| 88 | 95 | 90 | 91 | .8 | 1 | ...... | 2 | ...... | 2 | 1 | 5 | 2-10 | ...... |
| ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| 97 | 94 | 91 | 94 | 1.5 | 2 | ...... | 2 | ...... | 2 | 2 | 6 | 1-2 | ...... |

## TABLE XVII.—Continued.

| Incorporated villages. | School population from inspectors' report. | Enrollment. | | | | Average number belonging. | | | | Average daily attendance. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | High school department. | Grammar department. | Primary department. | Whole school. | High school department. | Grammar department. | Primary department. | Whole school. | High school department. | Grammar department. | Primary department. | Whole school. |
| Clarkston | 153 | 43 | 53 | 44 | 140 | 35 | 43 | 39 | 117 | 25 | 40 | 34 | 99 |
| Clayton | 97 | 41 | 37 | 29 | 107 | 35 | 34 | 22 | 91 | 29 | 33 | 18 | 80 |
| †Clifford | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Climax | 141 | 27 | 45 | 51 | 123 | 23 | 42 | 47 | 112 | 22 | 41 | 43 | 106 |
| Clinton | 239 | 55 | 76 | 84 | 215 | 51 | 74 | 82 | 207 | 49 | 72 | 76 | 197 |
| Clio | 159 | 44 | 53 | 77 | 174 | 41 | 46 | 35 | 122 | 38 | 41 | 28 | 107 |
| Coloma | 225 | 40 | 96 | 85 | 221 | 38 | 93 | 70 | 201 | 34 | 80 | 60 | 174 |
| Colon | 205 | 45 | 60 | 84 | 189 | 38 | 57 | 74 | 169 | 36 | 55 | 68 | 159 |
| Columbiaville | 157 | 18 | 46 | 70 | 134 | 8 | 40 | 54 | 102 | 6 | 39 | 42 | 87 |
| Concord | 117 | 42 | 30 | 50 | 122 | 38 | 28 | 48 | 114 | 37 | 26 | 45 | 108 |
| Constantine | 279 | 55 | 96 | 121 | 272 | 51 | 85 | 117 | 253 | 49 | 82 | 113 | 244 |
| Coopersville | 203 | 65 | 91 | 59 | 215 | 62 | 84 | 47 | 193 | 55 | 77 | 47 | 179 |
| Copemish | 138 | 33 | 41 | 57 | 131 | 33 | 41 | 57 | 131 | 21 | 28 | 45 | 94 |
| †Croton | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Custer | 139 | ..... | * 58 | 55 | 113 | ..... | * 58 | 55 | 113 | ..... | * 44 | 37 | 81 |
| †Daggett | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Dansville | 90 | 29 | 24 | 44 | 97 | 25 | 20 | 37 | 82 | 24 | 19 | 34 | 77 |
| Davison | 210 | 48 | 73 | 78 | 199 | 27 | 63 | 78 | 168 | 22 | 59 | 64 | 145 |
| Dearborn | 364 | 27 | 97 | 159 | 283 | 24 | 82 | 146 | 252 | 21 | 70 | 126 | 217 |
| Decatur | 374 | 74 | 91 | 195 | 300 | 72 | 78 | 141 | 291 | 69 | 75 | 130 | 274 |
| Deckerville | 187 | 48 | 36 | 101 | 185 | 48 | 36 | 101 | 185 | 33 | 27 | 69 | 129 |
| Deerfield | 172 | 39 | 42 | 77 | 158 | 36 | 42 | 73 | 151 | 30 | 33 | 63 | 126 |
| §Delray | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Detour | 359 | 20 | 50 | 148 | 218 | 20 | 45 | 117 | 182 | 18 | 35 | 97 | 150 |
| Dexter | 273 | 67 | 93 | 92 | 252 | 62 | 84 | 74 | 220 | 59 | 81 | 71 | 211 |
| Douglas | 155 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Dryden | 137 | ..... | 40 | 60 | 100 | ..... | 35 | 55 | 90 | ..... | 30 | 44 | 74 |
| Dundee | 270 | 45 | 85 | 110 | 240 | 40 | 80 | 100 | 220 | 39 | 77 | 96 | 212 |
| Durand | 490 | 54 | 166 | 272 | 492 | 47 | 137 | 182 | 366 | 41 | 132 | 167 | 340 |
| †Eagle | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| East Grand Rapids | 151 | 26 | 32 | 55 | 113 | 20 | 23 | 41 | 84 | 17 | 21 | 34 | 72 |
| East Jordan | 700 | 85 | 185 | 293 | 563 | 70 | 148 | 222 | 440 | 66 | 136 | 204 | 406 |
| Eau Claire | 145 | 23 | 25 | 90 | 138 | 18 | 20 | 80 | 118 | 16 | 14 | 56 | 86 |
| Ecorse | 260 | 8 | 44 | 137 | 189 | 8 | 39 | 92 | 139 | 8 | 38 | 83 | 129 |
| Edmore | 278 | 49 | 100 | 93 | 242 | 34 | 74 | 77 | 185 | 32 | 69 | 72 | 173 |
| Elk Rapids | 546 | 87 | 166 | 253 | 506 | 74 | 151 | 255 | 480 | 71 | 142 | 215 | 428 |
| Elkton | 305 | 43 | 90 | 109 | 242 | 40 | 88 | 103 | 231 | 36 | 84 | 98 | 218 |
| Elsie | 209 | 48 | 76 | 86 | 210 | 44 | 68 | 70 | 182 | 40 | 64 | 62 | 168 |
| †Emmet | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Empire | 217 | 20 | 22 | 156 | 198 | 20 | 20 | 156 | 196 | 19 | 19 | 145 | 183 |
| Essexville | 553 | ..... | 68 | 73 | 141 | ..... | 67 | 67 | 134 | ..... | 64 | 63 | 127 |
| Evart | 466 | 85 | 140 | 207 | 432 | 69 | 104 | 147 | 320 | 66 | 97 | 138 | 301 |
| †Fairgrove | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| †Fairview | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Farmington | 152 | 28 | 43 | 76 | 147 | 26 | 41 | 74 | 141 | 20 | 37 | 64 | 121 |
| Farwell | 279 | 58 | 81 | 99 | 238 | 40 | 65 | 64 | 169 | 31 | 56 | 51 | 138 |
| Fennville | 239 | 39 | 79 | 83 | 201 | 34 | 67 | 78 | 179 | 32 | 62 | 74 | 168 |
| Fenton | 563 | 119 | 190 | 287 | 596 | 107 | 159 | 209 | 475 | 105 | 153 | 190 | 448 |
| Fife Lake | 131 | 52 | 22 | 55 | 129 | 50 | 20 | 51 | 121 | 48 | 18 | 50 | 116 |
| Flushing | 223 | 51 | 84 | 88 | 223 | 44 | 72 | 69 | 185 | 42 | 68 | 66 | 176 |
| Ford | 402 | ..... | 98 | 198 | 296 | ..... | 90 | 126 | 216 | ..... | 64 | 92 | 156 |
| Forestville | 99 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| †Fowler | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Fowlerville | 300 | 87 | 40 | 81 | 208 | 74 | 38 | 71 | 183 | 72 | 36 | 68 | 176 |
| †Frankenmuth | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |

---

* Includes high school and grammar department.
† Not legally graded.
§ Annexed to Detroit in June, 1906.

## TABLE XVII.—Continued.

| Percentage of attendance. | | | | Number of regular teachers employed. | | | | | | | | Portion of superintendent's time devoted to supervision. | No. of special teachers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| High school department. | Grammar department. | Primary department. | Whole school. | High school department. | | Grammar department. | | Primary department. | | Whole school. | | | |
| | | | | Men. | Women. | Men. | Women. | Men. | Women. | Men. | Women. | | |
| 71 | 93 | 88 | 84 | 1 | ........ | ........ | 2 | ........ | 1 | 1 | 3 | ........ | ...... |
| 83 | 97 | 82 | 88 | 1 | ........ | ........ | 1 | ........ | 1 | 1 | 2 | ........ | ...... |
| ........ | ...... | ...... | ...... | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ...... |
| 96 | 97 | 91 | 95 | 1 | 1 | ........ | 1 | ........ | 1 | 1 | 3 | ........ | ...... |
| 97 | 97 | 93 | 96 | .8 | 2 | ........ | 2 | ........ | 2 | 1 | 6 | 2-10 | ...... |
| 92 | 90 | 86 | 88 | .9 | 1 | ........ | 2 | ........ | 2 | 1 | 5 | 1-10 | 1 |
| 90 | 86 | 86 | 84 | .8 | 1 | ........ | 3 | ........ | 2 | 1 | 6 | 2-10 | ...... |
| 95 | 96 | 92 | 94 | .8 | 2 | ........ | 2 | ........ | 2 | 1 | 6 | 2-10 | ...... |
| 75 | 97 | 77 | 87 | .8 | 1 | ........ | 1 | ........ | 1 | 1 | 3 | 2-10 | ...... |
| 97 | 93 | 95 | 95 | .9 | 1 | 1 | ........ | ........ | 2 | 2 | 3 | 1-10 | ...... |
| 97 | 95 | 96 | 96 | .6 | 2.5 | ........ | 2.5 | ........ | 2 | 1 | 7 | 4-10 | ...... |
| 93 | 90 | 93 | 92 | .9 | 1 | ........ | 2 | ........ | 1 | 1 | 4 | 1-10 | ...... |
| 63 | 68 | 79 | 71 | ........ | 1 | ........ | 1 | ........ | 1 | ........ | 3 | ........ | ...... |
| ........ | ...... | ...... | ...... | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ...... |
| ........ | *76 | 68 | 72 | ........ | ........ | 1 | ........ | ........ | 1 | 1 | 1 | ........ | ...... |
| ........ | ...... | ...... | ...... | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ...... |
| 95 | 94 | 91 | 93 | 1.3 | ........ | .7 | .7 | ........ | 1.3 | 2 | 2 | ........ | ...... |
| 85 | 93 | 82 | 87 | 2 | ........ | 1 | 2 | ........ | 1 | 3 | 3 | ........ | ...... |
| 87 | 85 | 86 | 85 | .8 | 1 | ........ | 1 | ........ | 3 | 1 | 5 | 2-10 | ...... |
| 96 | 98 | 92 | 95 | .9 | 2 | ........ | 2 | ........ | 3 | 1 | 7 | 1-10 | ...... |
| 68 | 75 | 69 | 70 | 1 | ........ | ........ | 1 | ........ | 2 | 1 | 3 | ........ | ...... |
| 83 | 78 | 86 | 83 | .9 | 1 | ........ | 1 | ........ | 2 | 1 | 4 | 1-10 | ...... |
| ........ | ...... | ...... | ...... | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ...... |
| 90 | 70 | 74 | 82 | 1 | ........ | ........ | 1 | ........ | 5 | 1 | 6 | ........ | ...... |
| 95 | 96 | 96 | 96 | .7 | 2 | ........ | 2 | ........ | 2 | 1 | 6 | 3-10 | 1 |
| ........ | ...... | ...... | ...... | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ...... |
| ........ | 85 | 80 | 82 | ........ | ........ | 1 | ........ | ........ | 1 | 1 | 1 | ........ | ...... |
| 96 | 96 | 95 | 96 | .8 | 2 | ........ | 3 | ........ | 3 | 1 | 8 | 2-10 | ...... |
| 87 | 96 | 93 | 92 | .5 | 3 | 1 | 2 | ........ | 6 | 2 | 11 | 1-2 | ...... |
| ........ | ...... | ...... | ...... | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ...... |
| 85 | 90 | 83 | 86 | ........ | 1 | ........ | 1 | ........ | 1 | ........ | 3 | ........ | ...... |
| 93 | 91 | 92 | 96 | 1.7 | 2 | 1 | 3 | ........ | 6 | 3 | 11 | 3-10 | 1 |
| 89 | 70 | 70 | 73 | .9 | ........ | ........ | 1 | ........ | 2 | 1 | 3 | 1-10 | ...... |
| 97 | 92 | 92 | 93 | .8 | ........ | ........ | 2 | ........ | 2 | 1 | 4 | 2-10 | ...... |
| 94 | 93 | 92 | 93 | 1 | ........ | ........ | 2 | ........ | 2 | 1 | 4 | ........ | ...... |
| 95 | 94 | 84 | 89 | .5 | 2 | ........ | 5 | ........ | 6 | 1 | 13 | 1-2 | 1 |
| 90 | 95 | 95 | 94 | 1 | ........ | ........ | 2 | ........ | 2 | 1 | 4 | ........ | ...... |
| 90 | 95 | 85 | 92 | 1 | 1 | ........ | 2 | ........ | 1 | 1 | 4 | ........ | ...... |
| ........ | ...... | ...... | ...... | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ...... |
| 95 | 95 | 93 | 93 | 1 | ........ | ........ | 1 | ........ | 2 | 1 | 3 | 1-12 | ...... |
| ........ | 96 | 94 | 95 | ........ | ........ | 1 | 1 | ........ | 2 | 1 | 3 | ........ | 1 |
| 95 | 93 | 94 | 94 | .4 | 3 | ........ | 4 | ........ | 4 | 1 | 11 | 6-10 | ...... |
| ........ | ...... | ...... | ...... | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ...... |
| ........ | ...... | ...... | ...... | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ...... |
| 76 | 90 | 86 | 85 | 1 | ........ | ........ | 2 | ........ | 1 | 1 | 3 | ........ | 1 |
| 79 | 85 | 81 | 82 | 1 | 1 | ........ | 2 | ........ | 2 | 1 | 5 | 1-20 | ...... |
| 94 | 92 | 95 | 94 | 1 | .5 | ........ | 1.5 | ........ | 2 | 1 | 4 | ........ | ...... |
| 98 | 96 | 93 | 95 | 1.6 | 2 | ........ | 4 | ........ | 6 | 2 | 12 | 4-10 | 1 |
| 96 | 90 | 98 | 96 | 1 | ........ | ........ | 1 | ........ | 1 | 1 | 2 | ........ | ...... |
| 95 | 96 | 95 | 95 | 1.9 | ........ | ........ | 2 | ........ | 2 | 2 | 4 | 1-10 | ...... |
| ........ | 71 | 73 | 72 | ........ | ........ | 1 | 1 | ........ | 3 | 1 | 4 | ........ | 1 |
| ........ | ...... | ...... | ...... | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ...... |
| ........ | ...... | ...... | ...... | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ...... |
| 96 | 93 | 93 | 94 | .8 | 2 | ........ | 1 | ........ | 3 | 1 | 6 | 2-10 | 1 |
| ........ | ...... | ...... | ...... | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ...... |

## TABLE XVII.—Continued.

| Incorporated villages. | School population from inspectors' report. | Enrollment. | | | | Average number belonging. | | | | Average daily attendance. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | High school department. | Grammar department. | Primary department. | Whole school. | High school department. | Grammar department. | Primary department. | Whole school. | High school department. | Grammar department. | Primary department. | Whole school. |
| Frankfort | 639 | 58 | 212 | 309 | 579 | 50 | 156 | 281 | 487 | 48 | 148 | 266 | 462 |
| †Fraser | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Fremont | 392 | 91 | 122 | 201 | 414 | 76 | 93 | 162 | 331 | 74 | 91 | 137 | 302 |
| Fruitport | 126 | ..... | * 67 | 53 | 120 | ..... | * 50 | 38 | 88 | ..... | * 48 | 31 | 79 |
| Gagetown | 198 | ..... | * 39 | 44 | 83 | ..... | * 35 | 37 | 72 | ..... | * 24 | 27 | 51 |
| Gaines | 107 | 30 | 35 | 37 | 102 | 30 | 35 | 37 | 102 | 27 | 33 | 34 | 94 |
| Galesburg | 144 | 61 | 46 | 67 | 174 | 54 | 40 | 48 | 142 | 52 | 38 | 46 | 136 |
| Galien | 186 | 33 | 56 | 64 | 153 | 31 | 53 | 49 | 133 | 29 | 50 | 43 | 122 |
| †Garden | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Gaylord | 564 | 44 | 143 | 268 | 455 | 40 | 115 | 207 | 362 | 36 | 102 | 191 | 329 |
| †Glenwood | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Gobleville | 191 | 50 | 77 | 62 | 189 | 46 | 69 | 56 | 171 | 45 | 61 | 42 | 148 |
| Grandville | 241 | 41 | 72 | 124 | 237 | 41 | 72 | 124 | 237 | 33 | 61 | 110 | 204 |
| Grant | 135 | ..... | 40 | 60 | 100 | ..... | 36 | 55 | 91 | ..... | 35 | 55 | 90 |
| Grass Lake | 208 | 47 | 62 | 86 | 195 | 43 | 55 | 73 | 171 | 41 | 53 | 71 | 165 |
| Grayling | 542 | 41 | 143 | 209 | 393 | 36 | 129 | 196 | 361 | 33 | 121 | 185 | 339 |
| †Grosse Pointe | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Grosse Pointe Farms | 302 | ..... | 51 | 113 | 164 | ..... | 40 | 100 | 140 | ..... | 30 | 80 | 110 |
| Hamtramck | 243 | ..... | 95 | 428 | 523 | ..... | 83 | 293 | 376 | ..... | 74 | 253 | 327 |
| Hanover | 116 | 47 | 37 | 35 | 119 | 42 | 33 | 32 | 107 | 41 | 30 | 34 | 105 |
| Harbor Beach | 462 | 58 | 120 | 224 | 402 | 45 | 97 | 156 | 298 | 44 | 80 | 153 | 277 |
| Harbor Springs | 708 | 68 | 150 | 202 | 420 | 64 | 144 | 183 | 391 | 52 | 140 | 154 | 346 |
| Harrietta | 142 | 26 | 41 | 60 | 127 | 20 | 39 | 57 | 116 | 19 | 35 | 55 | 109 |
| Hart | 464 | 90 | 31 | 262 | 383 | 84 | 28 | 251 | 363 | 82 | 26 | 249 | 357 |
| Hartford | 381 | 88 | 165 | 108 | 361 | 86 | 143 | 93 | 322 | 74 | 128 | 83 | 285 |
| Hersey | 145 | 55 | 45 | 38 | 138 | 51 | 39 | 31 | 121 | 47 | 34 | 26 | 107 |
| Hesperia | 168 | 28 | 64 | 92 | 184 | 21 | 55 | 90 | 166 | 20 | 47 | 56 | 123 |
| Highland Park | 281 | ..... | 75 | 121 | 196 | ..... | 65 | 105 | 170 | ..... | 63 | 88 | 151 |
| †Hillman | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Holly | 400 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Homer | 253 | 77 | 91 | 100 | 268 | 74 | 89 | 98 | 261 | 70 | 80 | 90 | 240 |
| Houghton | 1,920 | 154 | 342 | 829 | 1,325 | 154 | 282 | 797 | 1,233 | 142 | 259 | 660 | 1,061 |
| Howard City | 369 | 53 | 114 | 182 | 349 | 45 | 90 | 125 | 260 | 44 | 80 | 110 | 234 |
| Howell | 618 | 138 | 184 | 244 | 566 | 134 | 175 | 226 | 535 | 133 | 172 | 220 | 525 |
| Hubbardston | 136 | 24 | 31 | 40 | 95 | 20 | 27 | 33 | 80 | 18 | 25 | 28 | 71 |
| **Hubbell | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Imlay City | 392 | 65 | 100 | 147 | 312 | 63 | 94 | 134 | 291 | 60 | 87 | 121 | 268 |
| Iron River | 628 | 59 | 135 | 230 | 424 | 55 | 128 | 210 | 393 | 50 | 87 | 85 | 222 |
| Ithaca | 584 | 95 | 139 | 314 | 548 | 84 | 145 | 263 | 492 | 83 | 136 | 228 | 447 |
| Jerome | 88 | ..... | * 20 | 41 | 61 | ..... | * 16 | 34 | 50 | ..... | * 13 | 30 | 43 |
| Jonesville | 309 | 56 | 110 | 151 | 317 | 48 | 88 | 123 | 259 | 47 | 87 | 118 | 252 |
| Kalkaska | 381 | 63 | 105 | 192 | 360 | 53 | 81 | 156 | 290 | 51 | 77 | 127 | 255 |
| †Kinde | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Kingsley | 201 | 37 | 48 | 81 | 166 | 30 | 43 | 73 | 146 | 22 | 34 | 60 | 116 |
| Kingston | 145 | ..... | * 82 | 78 | 160 | ..... | * 64 | 72 | 136 | ..... | * 54 | 51 | 105 |
| Laingsburg | 154 | 30 | 64 | 44 | 138 | 28 | 51 | 38 | 117 | 25 | 23 | 36 | 84 |
| Lake Ann | 89 | ..... | 38 | 31 | 69 | ..... | 31 | 24 | 55 | ..... | 26 | 20 | 46 |
| Lake City | 311 | 45 | 82 | 128 | 255 | 40 | 80 | 126 | 246 | 38 | 75 | 122 | 235 |
| Lake Linden | 1,872 | 162 | 145 | 537 | 844 | 156 | 129 | 417 | 702 | 155 | 127 | 406 | 688 |
| Lake Odessa | 359 | 61 | 143 | 180 | 384 | 50 | 121 | 142 | 313 | 46 | 115 | 126 | 287 |
| Lakeview | 290 | 96 | 87 | 151 | 334 | 73 | 75 | 112 | 260 | 68 | 70 | 101 | 239 |
| L'Anse | 565 | 34 | 106 | 309 | 449 | 33 | 100 | 213 | 346 | 32 | 70 | 200 | 302 |
| ¶Laurium | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Lawrence | 191 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Lawton | 242 | 59 | 80 | 123 | 262 | 53 | 75 | 104 | 232 | 51 | 65 | 71 | 187 |

---

* Includes high school and grammar department.

† Not legally graded.

¶ Report included with Calumet.

** Report included in Lake Linden.

## TABLE XVII.—CONTINUED.

| Percentage of attendance. | | | | Number of regular teachers employed. | | | | | | | | Portion of superintendent's time devoted to supervision. | No. of special teachers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | High school department. | | Grammar department. | | Primary department. | | Whole school. | | | |
| High school department. | Grammar department. | Primary department. | Whole school. | Men. | Women. | Men. | Women. | Men. | Women. | Men. | Women. | | |
| 96 | 95 | 94 | 95 | .5 | 1 | ........ | 4.2 | ........ | 5.8 | 1 | 11 | 1-2 | 2 |
| ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ |
| 97 | 98 | 85 | 93 | 1.7 | 2 | ........ | 3 | ........ | 4 | 2 | 9 | 3-10 | ........ |
| ........ | * 89 | 82 | 86 | ........ | ........ | 1 | 1 | ........ | 1 | 1 | 2 | ........ | ........ |
| ........ | * 82 | 80 | 81 | ........ | ........ | 1 | ........ | ........ | 1 | 1 | 1 | ........ | ........ |
| 93 | 93 | 93 | 92 | 1 | ........ | ........ | 1 | ........ | 1 | 1 | 2 | ........ | ........ |
| 97 | 97 | 94 | 96 | .8 | 1.8 | .2 | 1.5 | ........ | 1.5 | 1 | 5 | 2-10 | 1 |
| 93 | 94 | 87 | 91 | .7 | .5 | .3 | 1.2 | ........ | 1.3 | 1 | 3 | ........ | ........ |
| ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ |
| 93 | 88 | 92 | 90 | .7 | 2 | ........ | 3 | ........ | 5 | 1 | 10 | 3-10 | ........ |
| ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ |
| 98 | 93 | 75 | 86 | .9 | 1 | ........ | 2 | ........ | 1 | 1 | 4 | 1-10 | ........ |
| 89 | 86 | 80 | 85 | .8 | ........ | ........ | 2 | ........ | 2 | 1 | 4 | 2-10 | ........ |
| ........ | 97 | 98 | 97 | ........ | ........ | ........ | 1 | ........ | 1 | ........ | 2 | ........ | ........ |
| 95 | 96 | 97 | 96 | .8 | 2 | ........ | 1.5 | ........ | 2 | 1 | 6 | 2-10 | 1 |
| 94 | 94 | 91 | 93 | .9 | 1 | ........ | 4 | ........ | 4 | 1 | 9 | 1-10 | 1 |
| ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ |
| ........ | 75 | 80 | 78 | ........ | ........ | 1 | ........ | ........ | 3 | 1 | 3 | ........ | ........ |
| ........ | 89 | 87 | 88 | ........ | ........ | .4 | 3 | ........ | 5 | 1 | 8 | 6-10 | 1 |
| 98 | 91 | 98 | 96 | 1 | .3 | ........ | 1.3 | ........ | 1.4 | 1 | 3 | ........ | ........ |
| 97 | 93 | 94 | 94 | .8 | 1.5 | ........ | 2.5 | ........ | 4 | 1 | 8 | 2-10 | ........ |
| 93 | 90 | 87 | 90 | .8 | 2 | ........ | 4 | ........ | 5 | 1 | 11 | 2-10 | ........ |
| 90 | 92 | 96 | 93 | 1 | ........ | ........ | 1 | ........ | 1 | 1 | 2 | ........ | ........ |
| 04 | 93 | 95 | 94 | 1.6 | 1 | ........ | 1 | ........ | 7 | 2 | 9 | 4-10 | 1 |
| 86 | 90 | 89 | 88 | .9 | 2 | ........ | 3 | ........ | 3 | 1 | 8 | 1-10 | 1 |
| 92 | 86 | 85 | 88 | .9 | 1 | ........ | 1 | ........ | 1 | 1 | 3 | 1-10 | ........ |
| 95 | 83 | 56 | 74 | .9 | .3 | ........ | 2 | ........ | 1.7 | 1 | 4 | 1-10 | ........ |
| ........ | 94 | 73 | 84 | ........ | ........ | .8 | 1 | ........ | 3 | 1 | 4 | 2-10 | ........ |
| ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ |
| ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ |
| 94 | 89 | 91 | 91 | .8 | 2 | ........ | 2 | ........ | 3 | 1 | 7 | 2-10 | 1 |
| 96 | 89 | 82 | 89 | 4 | 3 | ........ | 8.5 | 1 | 20.5 | 6 | 32 | All | 1 |
| 98 | 90 | 88 | 92 | .8 | 2 | ........ | 2 | ........ | 4 | 1 | 8 | 2-10 | 1 |
| 99 | 98 | 97 | 98 | .5 | 5 | ........ | 4 | ........ | 7 | 1 | 16 | 1-2 | 1 |
| 91 | 92 | 84 | 89 | 1 | ........ | ........ | 1 | ........ | 1 | 1 | 2 | ........ | ........ |
| ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ |
| 95 | 92 | 90 | 92 | .9 | 2 | ........ | 2.5 | ........ | 2.5 | 1 | 7 | 1-10 | ........ |
| 91 | 85 | 93 | 90 | .3 | 1 | ........ | 6 | ........ | 5 | 1 | 12 | 7-10 | ........ |
| 98 | 93 | 95 | 95 | .6 | 3 | ........ | 3 | ........ | 5 | 1 | 11 | 4-10 | 1 |
| ........ | * 81 | 88 | 85 | ........ | ........ | 1 | ........ | ........ | 1 | 1 | 1 | ........ | ........ |
| 98 | 98 | 96 | 97 | .6 | 2 | ........ | 2 | ........ | 3 | 1 | 7 | 4-10 | ........ |
| 96 | 95 | 81 | 91 | .7 | 2 | ........ | 2 | ........ | 5 | 1 | 9 | 3-10 | ........ |
| ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ |
| 87 | 83 | 75 | 82 | 1 | ........ | 1 | 1 | ........ | 2 | 2 | 3 | ........ | ........ |
| ........ | * 84 | 70 | 77 | ........ | ........ | 1 | ........ | ........ | 1 | 1 | 1 | ........ | ........ |
| 97 | 90 | 91 | 93 | .9 | 1 | ........ | 2 | ........ | 1 | 1 | 4 | 1-10 | ........ |
| ........ | 83 | 83 | 83 | ........ | ........ | 1 | ........ | ........ | 1 | 1 | 1 | ........ | ........ |
| 95 | 94 | 96 | 95 | 1 | ........ | ........ | 3 | ........ | 2 | ........ | 6 | 1-12 | ........ |
| 99 | 98 | 97 | 98 | 1.3 | 6 | ........ | 6 | ........ | 13 | 2 | 25 | 7-10 | 2 |
| 90 | 94 | 89 | 91 | 1.8 | 1 | ........ | 3 | ........ | 4 | 2 | 8 | 2-10 | ........ |
| 93 | 93 | 90 | 92 | .8 | 2 | ........ | 2 | ........ | 3 | 1 | 7 | 2-10 | ........ |
| 97 | 70 | 94 | 87 | 1.8 | ........ | 1 | 4 | ........ | 5 | 3 | 9 | 2-10 | ........ |
| ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ |
| ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ |
| 96 | 87 | 68 | 83 | .8 | 1 | ........ | 2 | ........ | 2 | 1 | 5 | 2-10 | ........ |

## TABLE XVII.—Continued.

| Incorporated villages. | School population from inspectors' report. | Enrollment. | | | | Average number belonging. | | | | Average daily attendance. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | High school department. | Grammar department. | Primary department. | Whole school. | High school department. | Grammar department. | Primary department. | Whole school. | High school department. | Grammar department. | Primary department. | Whole school. |
| Leonard | 143 | 36 | 33 | 46 | 115 | 31 | 31 | 45 | 107 | 25 | 24 | 31 | 80 |
| Le Roy | 186 | 32 | 66 | 76 | 174 | 26 | 56 | 59 | 141 | 24 | 51 | 53 | 128 |
| Leslie | 262 | 72 | 80 | 97 | 249 | 68 | 77 | 95 | 240 | 59 | 74 | 90 | 223 |
| Lexington | 161 | 35 | 54 | 72 | 161 | 33 | 46 | 52 | 131 | 32 | 43 | 51 | 126 |
| Linden | 173 | 28 | 50 | 53 | 131 | 23 | 45 | 47 | 115 | 20 | 40 | 40 | 100 |
| Lisbon | 107 | ...... | 33 | 41 | 74 | ...... | 26 | 38 | 64 | ...... | 25 | 32 | 57 |
| Litchfield | 154 | 47 | 59 | 66 | 172 | 44 | 53 | 62 | 159 | 41 | 48 | 54 | 143 |
| Lowell | 579 | 125 | 180 | 198 | 503 | 115 | 170 | 180 | 465 | 110 | 165 | 170 | 445 |
| Luther | 270 | 28 | 70 | 146 | 244 | 30 | 78 | 110 | 218 | 25 | 64 | 79 | 168 |
| Lyons | 154 | 35 | 45 | 78 | 158 | 29 | 40 | 73 | 142 | 27 | 37 | 60 | 124 |
| Mackinaw City | 221 | 32 | 35 | 119 | 186 | 30 | 32 | 111 | 173 | 28 | 25 | 85 | 138 |
| Mancelona | 528 | 65 | 165 | 322 | 552 | 63 | 136 | 236 | 435 | 62 | 131 | 214 | 407 |
| Manchester | 347 | 74 | 90 | 146 | 310 | 65 | 74 | 132 | 271 | 63 | 71 | 127 | 261 |
| Manton | 379 | 48 | 116 | 196 | 360 | 39 | 93 | 185 | 317 | 36 | 111 | 137 | 284 |
| Maple Rapids | 153 | 67 | 38 | 50 | 155 | 58 | 34 | 48 | 140 | 53 | 33 | 35 | 121 |
| Marcellus | 230 | 58 | 92 | 102 | 252 | 55 | 77 | 75 | 207 | 54 | 74 | 71 | 199 |
| Marion | 315 | 38 | 82 | 164 | 284 | 34 | 74 | 123 | 231 | 32 | 71 | 105 | 208 |
| †Marlborough | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Marlette | 377 | 97 | 91 | 186 | 374 | 74 | 70 | 141 | 285 | 71 | 66 | 130 | 267 |
| †Maybee | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Mayville | 240 | 61 | 61 | 109 | 231 | 57 | 56 | 97 | 210 | 54 | 48 | 85 | 187 |
| McBain | 247 | 25 | 53 | 150 | 228 | 17 | 44 | 128 | 189 | 14 | 37 | 101 | 152 |
| McBrides | 145 | 34 | 51 | 49 | 134 | 26 | 45 | 43 | 114 | 23 | 40 | 37 | 100 |
| Mecosta | 150 | 42 | 58 | 40 | 140 | 40 | 54 | 38 | 132 | 38 | 50 | 36 | 124 |
| Memphis | 191 | 58 | 73 | 59 | 190 | 53 | 62 | 50 | 165 | 47 | 57 | 41 | 145 |
| Mendon | 217 | 65 | 57 | 80 | 202 | 63 | 50 | 75 | 188 | 61 | 52 | 73 | 186 |
| †Merrill | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Mesick | 174 | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Metamora | 91 | 35 | 31 | 30 | 96 | 33 | 27 | 26 | 86 | 30 | 24 | 23 | 77 |
| Middleville | 206 | 61 | 34 | 125 | 220 | 55 | 30 | 96 | 181 | 52 | 29 | 92 | 173 |
| Milan | 338 | 75 | 97 | 178 | 350 | 70 | 95 | 150 | 315 | 67 | 90 | 100 | 257 |
| Milford | 251 | 51 | 84 | 93 | 228 | 46 | 77 | 74 | 197 | 43 | 73 | 71 | 187 |
| Millersburg | 211 | 6 | 36 | 137 | 179 | 6 | 30 | 114 | 150 | 5 | 22 | 75 | 102 |
| Millington | 181 | 65 | 74 | 98 | 237 | 60 | 70 | 81 | 211 | 53 | 59 | 68 | 180 |
| Minden | 179 | 37 | 42 | 72 | 151 | 28 | 34 | 55 | 117 | 23 | 26 | 44 | 93 |
| Montague | 293 | 50 | 76 | 125 | 251 | 48 | 73 | 123 | 244 | 45 | 66 | 118 | 229 |
| †Montrose | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Morenci | 325 | 55 | 98 | 144 | 297 | 54 | 86 | 118 | 258 | 53 | 77 | 109 | 239 |
| Morley | 136 | 52 | 26 | 34 | 112 | 46 | 22 | 30 | 98 | 40 | 20 | 28 | 88 |
| Morrice | 141 | 29 | 43 | 78 | 150 | 26 | 30 | 73 | 129 | 25 | 26 | 64 | 115 |
| Mt. Morris | 207 | 55 | 83 | 51 | 189 | 48 | 73 | 44 | 165 | 42 | 68 | 39 | 149 |
| Muir | 116 | 13 | 26 | 56 | 95 | 12 | 25 | 52 | 89 | 10 | 23 | 48 | 81 |
| †Mulliken | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Munising | 849 | 72 | 178 | 446 | 696 | 58 | 160 | 422 | 640 | 54 | 147 | 405 | 606 |
| Nashville | 306 | 95 | 68 | 127 | 290 | 87 | 64 | 119 | 270 | 79 | 59 | 98 | 236 |
| †Naubinway | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Newaygo | 462 | 59 | 140 | 222 | 421 | 55 | 120 | 157 | 332 | 52 | 113 | 144 | 309 |
| New Baltimore | 233 | 48 | 64 | 97 | 209 | 42 | 56 | 79 | 177 | 40 | 52 | 73 | 165 |
| Newberry | 610 | 45 | 188 | 343 | 576 | 36 | 135 | 261 | 432 | 34 | 130 | 250 | 414 |
| †New Boston | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| New Buffalo | 190 | 24 | 78 | 63 | 165 | 22 | 73 | 55 | 150 | 21 | 61 | 45 | 127 |
| New Haven | 153 | 36 | 45 | 49 | 130 | 28 | 40 | 42 | 110 | 27 | 33 | 30 | 90 |
| North Adams | 111 | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| North Branch | 241 | 58 | 72 | 105 | 235 | 53 | 59 | 72 | 184 | 51 | 56 | 68 | 175 |
| Northport | 287 | 26 | 102 | 136 | 264 | 20 | 85 | 113 | 218 | 18 | 74 | 95 | 187 |

†Not legally graded.

## TABLE XVII.—Continued.

| Percentage of attendance. | | | | Number of regular teachers employed. | | | | | | | | Portion of superintendent's time devoted to supervision. | No. of special teachers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| High school department. | Grammar department. | Primary department. | Whole school. | High school department. | | Grammar department. | | Primary department. | | Whole school. | | | |
| | | | | Men. | Women. | Men. | Women. | Men. | Women. | Men. | Women. | | |
| 81 | 77 | 69 | 76 | 1 | ........ | ........ | 1 | ........ | 1 | 1 | 2 | ........ | ...... |
| 96 | 90 | 86 | 91 | 1 | ........ | ........ | 1.5 | ........ | 1.5 | 1 | 3 | ........ | ...... |
| 87 | 96 | 94 | 92 | .8 | 1 | ........ | 2 | ........ | 2 | 1 | 5 | 2-10 | ...... |
| 95 | 93 | 91 | 93 | .8 | 1 | ........ | 1 | ........ | 2 | 1 | 4 | 2-10 | ...... |
| 87 | 89 | 85 | 87 | 1 | ........ | ........ | 2 | ........ | 2 | 1 | 4 | ........ | ...... |
| ........ | 92 | 87 | 89 | ........ | ........ | 1 | ........ | ........ | 1 | 1 | 1 | ........ | ...... |
| 93 | 88 | 88 | 90 | .8 | 1 | ........ | 2 | ........ | 1 | 1 | 4 | 2-10 | ...... |
| 95 | 97 | 94 | 95 | 1 | 2 | ........ | 3 | 1 | 4 | 2 | 9 | ........ | ...... |
| 83 | 82 | 72 | 79 | 1 | ........ | ........ | 2 | ........ | 2 | 1 | 4 | ........ | ...... |
| 94 | 94 | 82 | 90 | .8 | 1 | ........ | 1.5 | ........ | 1.5 | 1 | 4 | 2-10 | ...... |
| 93 | 78 | 76 | 82 | 1 | ........ | 1 | ........ | ........ | 2 | 2 | 2 | ........ | ...... |
| 98 | 94 | 93 | 95 | 1.5 | 1 | 1 | 3 | ........ | 7 | 3 | 11 | 1-2 | ...... |
| 97 | 96 | 96 | 96 | .9 | 2 | ........ | 2 | ........ | 3 | 1 | 7 | 1-10 | 1 |
| 94 | 94 | 91 | 93 | .6 | 2 | ........ | 2 | ........ | 4 | 1 | 8 | 4-10 | ...... |
| 91 | 97 | 73 | 87 | .9 | 1 | ........ | 1 | ........ | 1 | 1 | 3 | 1-10 | ...... |
| 98 | 96 | 94 | 96 | .9 | 2 | ........ | 2 | ........ | 2 | 1 | 6 | 1-10 | ...... |
| 94 | 96 | 85 | 92 | .9 | ........ | ........ | 1.5 | ........ | 2.5 | 1 | 4 | 1-10 | ...... |
| ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ...... |
| 96 | 93 | 92 | 93 | 1.8 | 1 | ........ | 2 | ........ | 4 | 2 | 7 | 2-10 | ...... |
| ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ...... |
| 95 | 86 | 88 | 90 | 1 | 1 | ........ | 1 | ........ | 2 | 1 | 4 | ........ | ...... |
| 80 | 85 | 78 | 82 | .9 | .5 | ........ | 1.5 | ........ | 3 | 1 | 5 | 1-10 | ...... |
| 88 | 89 | 86 | 88 | 1 | ........ | ........ | 1 | ........ | 1 | 1 | 2 | ........ | ...... |
| 95 | 92 | 94 | 94 | 1 | ........ | ........ | 1 | ........ | 1 | 1 | 2 | ........ | ...... |
| 88 | 92 | 82 | 88 | 1 | 1 | ........ | 2 | ........ | 1 | 1 | 4 | ........ | ...... |
| 97 | 96 | 97 | 96 | .8 | 2 | ........ | 2 | ........ | 2 | 1 | 6 | 2-10 | ...... |
| ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ...... |
| ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ...... |
| 91 | 89 | 88 | 89 | 1 | ........ | ........ | 1 | ........ | 1 | 1 | 2 | ........ | ...... |
| 94 | 97 | 96 | 96 | .8 | 2 | ........ | 1 | ........ | 3 | 1 | 6 | 2-10 | ...... |
| 96 | 95 | 67 | 86 | .7 | 2 | ........ | 3 | ........ | 3 | 1 | 8 | 3-10 | ...... |
| 93 | 94 | 95 | 94 | 1 | 2 | ........ | 2 | ........ | 3 | 1 | 7 | ........ | ...... |
| 83 | 73 | 66 | 74 | .8 | ........ | ........ | 1 | ........ | 2 | 1 | 3 | 2-10 | ...... |
| 81 | 80 | 72 | 78 | .8 | 1 | ........ | 1.3 | ........ | 1.7 | 1 | 4 | 2-10 | ...... |
| 82 | 76 | 80 | 79 | 1 | ........ | ........ | 1 | 1 | ........ | 2 | 1 | ........ | ...... |
| 95 | 88 | 93 | 92 | .8 | 1 | ........ | 2 | ........ | 3 | 1 | 6 | 2-10 | 1 |
| ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ...... |
| 98 | 89 | 92 | 93 | .9 | 1.5 | ........ | 1.5 | ........ | 3 | 1 | 6 | 1-10 | ...... |
| 87 | 90 | 93 | 90 | 1 | ........ | ........ | 1 | ........ | 1 | 1 | 2 | 1-12 | ...... |
| 96 | 86 | 84 | 89 | 1 | ........ | ........ | 1.5 | ........ | 1.5 | 1 | 3 | ........ | ...... |
| 87 | 93 | 86 | 89 | .9 | .5 | ........ | 1.5 | ........ | 1 | 1 | 3 | 1-10 | ...... |
| 82 | 95 | 91 | 89 | 1 | ........ | ........ | 1 | ........ | 2 | 1 | 3 | ........ | ...... |
| ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ...... |
| 93 | 92 | 95 | 93 | 1.5 | 1 | 2 | 4 | ........ | 10 | 4 | 15 | 1-2 | 1 |
| 91 | 92 | 82 | 88 | 1.7 | 2 | ........ | 2 | ........ | 3 | 2 | 7 | 3-10 | 1 |
| ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ...... |
| 94 | 94 | 91 | 93 | .9 | 1 | ........ | 3 | ........ | 4 | 1 | 8 | 1-10 | ...... |
| 95 | 93 | 94 | 94 | .8 | 2 | ........ | 2 | ........ | 2 | 1 | 6 | 2-10 | 1 |
| 94 | 96 | 95 | 95 | 1 | 2 | 2 | 4 | ........ | 7 | 3 | 13 | 1-20 | 1 |
| ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ...... |
| 95 | 83 | 82 | 86 | 1 | ........ | ........ | 2 | ........ | 1 | 1 | 3 | ........ | ...... |
| 96 | 82 | 71 | 83 | 1 | ........ | ........ | 1 | ........ | 1 | 1 | 2 | 1-16 | ...... |
| ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ...... |
| 96 | 95 | 94 | 95 | 1 | 1 | ........ | 2 | ........ | 2 | 1 | 5 | ........ | ...... |
| 90 | 85 | 83 | 86 | 1 | ........ | ........ | 1.5 | ........ | 2.5 | 1 | 4 | 1-25 | ...... |

## TABLE XVII.—CONTINUED.

| Incorporated villages. | School population from inspector's report. | Enrollment. | | | | Average number belonging. | | | | Average daily attendance. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | High school department. | Grammar department. | Primary department. | Whole school. | High school department. | Grammar department. | Primary department. | Whole school. | High school department. | Grammar department. | Primary department. | Whole school. |
| Northville | 472 | 61 | 156 | 194 | 411 | 58 | 153 | 181 | 392 | 55 | 145 | 173 | 373 |
| Oakley | 112 | ...... | 40 | 44 | 84 | ...... | 37 | 42 | 79 | ...... | 30 | 30 | 60 |
| Olivet | 193 | 47 | 62 | 75 | 184 | 44 | 62 | 73 | 179 | 42 | 60 | 63 | 165 |
| Onekama | 156 | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Ontonagon | 739 | 66 | 313 | 542 | 921 | 52 | 196 | 349 | 597 | 50 | 178 | 298 | 526 |
| Orion | 199 | 37 | 62 | 86 | 185 | 32 | 52 | 67 | 151 | 28 | 42 | 60 | 130 |
| Ortonville | 105 | 36 | 44 | 45 | 125 | 29 | 32 | 36 | 97 | 29 | 27 | 29 | 85 |
| Oscoda | 387 | 47 | 54 | 152 | 253 | 43 | 47 | 132 | 222 | 42 | 46 | 121 | 209 |
| Otisville | 127 | 48 | 36 | 57 | 141 | 42 | 34 | 47 | 123 | 41 | 23 | 37 | 101 |
| Otsego | 651 | 115 | 174 | 281 | 570 | 100 | 154 | 216 | 470 | 92 | 146 | 199 | 437 |
| Otter Lake | 77 | ...... | * 30 | 42 | 72 | ...... | * 22 | 35 | 57 | ...... | * 17 | 29 | 46 |
| Ovid | 319 | 89 | 112 | 132 | 333 | 80 | 102 | 124 | 306 | 77 | 100 | 111 | 288 |
| †Owendale | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Oxford | 254 | 52 | 123 | 92 | 267 | 44 | 96 | 68 | 208 | 43 | 92 | 63 | 198 |
| Parma | 171 | 49 | 71 | 54 | 174 | 47 | 69 | 45 | 161 | 43 | 67 | 41 | 151 |
| Paw Paw | 396 | 140 | 121 | 144 | 405 | 121 | 107 | 114 | 342 | 120 | 106 | 111 | 337 |
| †Peck | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Pentwater | 304 | 42 | 102 | 145 | 289 | 37 | 94 | 122 | 253 | 30 | 87 | 109 | 226 |
| †Perrinton | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Perry | 195 | 32 | 81 | 79 | 192 | 27 | 68 | 61 | 156 | 26 | 64 | 57 | 147 |
| Petersburg | 235 | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Pewamo | 145 | 38 | 43 | 47 | 128 | 31 | 38 | 45 | 114 | 25 | 31 | 34 | 90 |
| Pierson | 113 | ...... | * 42 | 45 | 87 | ...... | * 35 | 37 | 72 | ...... | * 21 | 25 | 46 |
| Pigeon | 339 | 28 | 87 | 127 | 242 | 27 | 80 | 120 | 227 | 17 | 52 | 84 | 153 |
| Pinckney | 129 | 30 | 21 | 77 | 128 | 30 | 19 | 55 | 104 | 28 | 18 | 50 | 96 |
| Pinconning | 333 | 80 | 80 | 120 | 280 | 76 | 60 | 100 | 236 | 74 | 55 | 90 | 219 |
| Plainwell | 321 | 86 | 87 | 133 | 306 | 84 | 76 | 116 | 276 | 82 | 75 | 109 | 266 |
| Plymouth | 524 | 83 | 164 | 222 | 469 | 72 | 142 | 176 | 390 | 69 | 129 | 165 | 363 |
| Port Austin | 229 | 27 | 33 | 138 | 198 | 24 | 29 | 121 | 174 | 22 | 28 | 99 | 149 |
| Port Hope | 168 | 30 | 15 | 37 | 82 | 28 | 13 | 26 | 67 | 26 | 12 | 24 | 62 |
| Portland | 453 | 77 | 128 | 250 | 455 | 75 | 125 | 240 | 440 | 70 | 123 | 237 | 430 |
| Port Sanilac | 110 | 47 | 24 | 40 | 111 | 45 | 22 | 38 | 105 | 33 | 14 | 24 | 71 |
| Potterville | 145 | 38 | 57 | 76 | 171 | 36 | 43 | 63 | 142 | 32 | 38 | 50 | 120 |
| Quincy | 331 | 98 | 90 | 89 | 277 | 94 | 87 | 74 | 255 | 91 | 83 | 69 | 243 |
| Reading | 236 | 91 | 72 | 97 | 260 | 86 | 70 | 87 | 243 | 85 | 68 | 79 | 232 |
| ¶Red Jacket | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Reed City | 528 | 79 | 153 | 242 | 474 | 66 | 125 | 191 | 382 | 60 | 117 | 181 | 358 |
| †Reese | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Richland | 83 | 40 | 29 | 16 | 85 | 35 | 26 | 13 | 74 | 31 | 23 | 11 | 65 |
| Richmond | ‡ | 31 | 98 | 133 | 262 | 26 | 86 | 111 | 223 | 24 | 79 | 96 | 199 |
| River Rouge | 1,055 | 16 | 210 | 603 | 829 | 13 | 143 | 424 | 580 | 13 | 141 | 415 | 569 |
| Rochester | 372 | 62 | 114 | 130 | 306 | 60 | 91 | 115 | 266 | 50 | 82 | 85 | 217 |
| Rockford | 205 | 44 | 76 | 76 | 196 | 38 | 64 | 63 | 165 | 37 | 62 | 63 | 162 |
| Rogers | 304 | 17 | 39 | 137 | 193 | 15 | 30 | 125 | 170 | 14 | 29 | 120 | 163 |
| Romeo | 388 | 82 | 112 | 149 | 343 | 70 | 89 | 129 | 288 | 69 | 86 | 127 | 282 |
| Roscommon | 189 | 31 | 37 | 54 | 122 | 26 | 26 | 47 | 99 | 24 | 27 | 33 | 84 |
| Royal Oak | 317 | 47 | 52 | 172 | 271 | 35 | 40 | 149 | 224 | 33 | 42 | 131 | 206 |
| St. Charles | 500 | 37 | 115 | 386 | 538 | 32 | 81 | 268 | 381 | 29 | 76 | 249 | 354 |
| †St. Clair Heights | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Saline | 201 | 57 | 79 | 69 | 205 | 44 | 69 | 63 | 176 | 42 | 65 | 54 | 161 |
| Sand Lake | 132 | 16 | 45 | 63 | 124 | 14 | 38 | 50 | 102 | 13 | 35 | 48 | 96 |
| Saranac | 267 | 55 | 107 | 96 | 258 | 50 | 87 | 74 | 211 | 48 | 83 | 72 | 203 |
| Saugatuck | 235 | 70 | 53 | 98 | 221 | 60 | 50 | 75 | 185 | 52 | 35 | 67 | 154 |
| Schoolcraft | 186 | 45 | 69 | 95 | 209 | 41 | 65 | 75 | 181 | 39 | 62 | 73 | 174 |
| Scottville | 246 | 59 | 85 | 116 | 260 | 56 | 70 | 103 | 229 | 55 | 62 | 99 | 216 |

---

* Includes high school and grammar department.
† Not legally graded.
¶ Report included with Calumet.
‡ Included in Lenox.

## TABLE XVII.—Continued.

| Percentage of attendance. | | | | Number of regular teachers employed. | | | | | | | | Portion of superintendent's time devoted to supervision. | No. of special teachers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | High school department. | | Grammar department. | | Primary department. | | Whole school. | | | |
| High school department. | Grammar department. | Primary department. | Whole school. | Men. | Women. | Men. | Women. | Men. | Women. | Men. | Women. | | |
| 96 | 95 | 90 | 93 | 1.7 | 1 | ...... | 4 | ...... | 5 | 2 | 10 | 3-10 | 1 |
| ...... | 90 | 93 | 92 | ...... | ...... | 1 | ...... | ...... | 1 | 1 | 1 | ...... | ...... |
| 95 | 97 | 84 | 92 | .7 | 2 | ...... | 2 | ...... | 2 | 1 | 6 | 3-10 | 1 |
| 96 | 91 | 85 | 90 | .4 | 3 | ...... | 6 | ...... | 13 | 1 | 22 | 6-10 | ...... |
| 88 | 80 | 90 | 86 | .9 | 1 | ...... | 2 | ...... | 2 | 1 | 5 | 1-10 | ...... |
| 97 | 84 | 81 | 87 | 1 | ...... | 1 | ...... | ...... | 1 | 2 | 1 | ...... | ...... |
| 98 | 97 | 91 | 95 | 1 | 1 | 1 | 1 | ...... | 3 | 2 | 5 | 1-12 | ...... |
| 98 | 68 | 79 | 82 | 1 | ...... | ...... | 1 | ...... | 1 | 1 | 2 | ...... | ...... |
| 92 | 95 | 92 | 93 | .6 | 4 | ...... | 4 | ...... | 7 | 1 | 15 | 4-10 | 2 |
| ...... | * 77 | 83 | 80 | ...... | ...... | 1 | ...... | ...... | 1 | 1 | 1 | ...... | ...... |
| 97 | 98 | 90 | 95 | 1.8 | 1 | ...... | 2.5 | ...... | 3.5 | 2 | 7 | 2-10 | 1 |
| 97 | 96 | 92 | 95 | .8 | 2 | 1 | 2 | ...... | 2 | 2 | 6 | 2-10 | 1 |
| 91 | 97 | 91 | 93 | 1 | 1 | ...... | 2 | ...... | 1 | 1 | 4 | ...... | 1 |
| 99 | 99 | 97 | 98 | 1.8 | 2 | 1 | 1 | ...... | 3 | 3 | 6 | 2-10 | 1 |
| 95 | 94 | 93 | 94 | .7 | 1 | ...... | 2 | ...... | 3 | 1 | 6 | 3-10 | ...... |
| 96 | 93 | 93 | 94 | 1 | 1 | ...... | 2 | ...... | 2 | 1 | 5 | 1-20 | ...... |
| 83 | 81 | 79 | 81 | 1 | ...... | ...... | 1 | ...... | 1 | 1 | 2 | ...... | ...... |
| ...... | * 60 | 68 | 64 | ...... | ...... | 1 | ...... | ...... | 1 | 1 | 1 | ...... | ...... |
| 61 | 60 | 66 | 62 | 1 | .5 | ...... | 1.5 | ...... | 2 | 1 | 4 | ...... | ...... |
| 93 | 96 | 90 | 93 | 1 | 1 | ...... | 1 | ...... | 2 | 1 | 4 | 1-25 | ...... |
| 97 | 91 | 90 | 93 | ...... | 1.7 | ...... | 2 | ...... | 1 | ...... | 5 | 3-10 | ...... |
| 97 | 96 | 93 | 96 | .7 | 3 | ...... | 2 | ...... | 3 | 1 | 8 | 3-10 | 1 |
| 95 | 93 | 92 | 93 | .9 | 2 | ...... | 3 | ...... | 4 | 1 | 9 | 1-10 | 2 |
| 91 | 99 | 82 | 90 | 1 | 1 | ...... | 1 | ...... | 2 | 1 | 4 | ...... | ...... |
| 91 | 90 | 92 | 91 | 1 | ...... | ...... | 1 | ...... | 1 | 1 | 2 | 1-20 | ...... |
| 93 | 98 | 98 | 96 | ...... | 4.5 | ...... | 4 | ...... | 4 | ...... | 13 | 1-2 | ...... |
| 73 | 65 | 63 | 67 | ...... | .9 | ...... | 1 | ...... | 1 | ...... | 3 | 1-10 | ...... |
| 84 | 88 | 80 | 84 | 1 | ...... | ...... | 1 | ...... | 2 | 1 | 3 | ...... | ...... |
| 97 | 93 | 92 | 94 | .8 | 3 | ...... | 2 | ...... | 2 | 1 | 7 | 2-10 | ...... |
| 95 | 91 | 92 | 93 | 1 | 2 | ...... | 2 | ...... | 2 | 1 | 6 | ...... | ...... |
| 95 | 92 | 96 | 94 | 2.5 | 1 | ...... | 4 | ...... | 5 | 3 | 10 | 1-2 | 2 |
| 90 | 90 | 89 | 90 | .9 | 1 | ...... | 1 | ...... | 1 | 1 | 3 | 1-10 | ...... |
| 92 | 92 | 86 | 90 | 1 | 1 | ...... | 2 | ...... | 3 | 1 | 6 | 1-15 | ...... |
| 98 | 98 | 95 | 97 | ...... | 2 | 1 | 4 | ...... | 11 | 2 | 17 | All | 1 |
| 93 | 90 | 75 | 86 | .8 | 1.5 | ...... | 2 | ...... | 2.5 | 1 | 6 | 2-10 | ...... |
| 97 | 97 | 99 | 98 | .9 | 1 | ...... | 2 | ...... | 2 | 1 | 5 | 1-10 | ...... |
| 93 | 96 | 96 | 95 | ...... | 1 | ...... | 1 | ...... | 3 | ...... | 5 | ...... | ...... |
| 98 | 96 | 98 | 97 | .7 | 3 | ...... | 2.5 | ...... | 3.5 | 1 | 9 | 3-10 | 1 |
| 92 | 91 | 90 | 91 | 1 | ...... | ...... | 1 | ...... | 1 | 1 | 2 | ...... | ...... |
| 90 | 95 | 92 | 92 | .8 | 2 | ...... | 1 | ...... | 3 | 1 | 6 | 2-10 | ...... |
| 90 | 93 | 92 | 92 | .8 | 1 | ...... | 2 | ...... | 5 | 1 | 8 | 2-10 | ...... |
| 95 | 94 | 85 | 91 | .8 | 2 | ...... | 2 | ...... | 2 | 1 | 6 | 2-10 | ...... |
| 93 | 94 | 96 | 94 | 1 | ...... | ...... | 1 | ...... | 1 | 1 | 2 | ...... | ...... |
| 95 | 95 | 97 | 96 | 1 | 1 | ...... | 3 | ...... | 2 | 1 | 6 | ...... | ...... |
| 87 | 70 | 89 | 82 | 1 | 1 | ...... | 2 | ...... | 2 | 1 | 5 | 1-20 | ...... |
| 96 | 96 | 97 | 96 | .8 | 1 | ...... | 2 | ...... | 2 | 1 | 5 | 2-10 | ...... |
| 96 | 95 | 94 | 95 | .8 | 1 | ...... | 2 | ...... | 2 | 1 | 5 | 2-10 | 1 |

## TABLE XVII.—Concluded.

| Incorporated villages. | School population from inspectors' report. | Enrollment. | | | | Average number belonging. | | | | Average daily attendance. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | High school department. | Grammar department. | Primary department. | Whole school. | High school department. | Grammar department. | Primary department. | Whole school. | High school department. | Grammar department. | Primary department. | Whole school. |
| Sebewaing | 599 | 34 | 108 | 183 | 325 | 28 | 93 | 145 | 266 | 24 | 81 | 117 | 222 |
| Shelby | 390 | 89 | 105 | 179 | 373 | 77 | 89 | 140 | 306 | 72 | 84 | 127 | 283 |
| Shepherd | 258 | 54 | 69 | 149 | 272 | 34 | 57 | 111 | 202 | 30 | 53 | 104 | 187 |
| Sheridan | 173 | 32 | 56 | 53 | 141 | 26 | 46 | 41 | 113 | 25 | 45 | 40 | 110 |
| Sherman | 198 | 31 | 44 | 108 | 183 | 28 | 34 | 86 | 148 | 27 | 33 | 79 | 139 |
| Sherwood | 133 | 14 | 58 | 48 | 120 | 14 | 50 | 44 | 108 | 13 | 41 | 33 | 87 |
| †Sibley | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| South Frankfort | 178 | 35 | 79 | 68 | 182 | 28 | 86 | 68 | 182 | 21 | 55 | 50 | 126 |
| South Lyon | 171 | 43 | 37 | 83 | 163 | 42 | 36 | 81 | 159 | 41 | 35 | 77 | 153 |
| Sparta | 332 | 55 | 130 | 136 | 321 | 53 | 107 | 112 | 272 | 48 | 105 | 106 | 259 |
| Spring Lake | 244 | 12 | 67 | 89 | 168 | 10 | 64 | 74 | 148 | 11 | 58 | 69 | 138 |
| Springport | 130 | 43 | 24 | 61 | 128 | 40 | 20 | 48 | 108 | 39 | 19 | 45 | 103 |
| Stambaugh | 620 | 26 | 135 | 312 | 473 | 23 | 105 | 247 | 375 | 21 | 102 | 232 | 355 |
| †Stephenson | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Stevensville | 262 | 23 | 60 | 85 | 168 | 20 | 54 | 79 | 153 | 19 | 50 | 67 | 136 |
| Stockbridge | 201 | 45 | 78 | 92 | 215 | 40 | 71 | 82 | 193 | 39 | 66 | 84 | 189 |
| Sunfield | 128 | 43 | 44 | 52 | 139 | 40 | 41 | 47 | 128 | 36 | 39 | 39 | 114 |
| Sutton's Bay | 198 | 30 | 39 | 36 | 105 | 21 | 27 | 27 | 75 | 19 | 26 | 25 | 70 |
| Tecumseh | 565 | 143 | 179 | 241 | 563 | 127 | 154 | 177 | 458 | 123 | 144 | 170 | 437 |
| Tekonsha | 158 | 36 | 29 | 79 | 144 | 34 | 29 | 79 | 142 | 30 | 26 | 74 | 130 |
| Thompsonville | 330 | 40 | 82 | 158 | 280 | 28 | 64 | 120 | 212 | 25 | 59 | 108 | 192 |
| Three Oaks | 400 | 65 | 139 | 111 | 315 | 58 | 125 | 93 | 276 | 56 | 119 | 80 | 255 |
| Trenton | 409 | 10 | 87 | 211 | 308 | 8 | 84 | 190 | 282 | 6 | 78 | 170 | 254 |
| Tustin | 176 | 19 | 70 | 44 | 133 | 21 | 60 | 37 | 118 | 19 | 52 | 33 | 104 |
| Twining | 195 | 27 | 50 | 80 | 157 | 27 | 50 | 80 | 157 | 24 | 43 | 75 | 142 |
| †Ubly | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Union City | 362 | 106 | 80 | 128 | 314 | 100 | 72 | 128 | 300 | 89 | 72 | 125 | 286 |
| Unionville | 227 | 41 | 93 | 74 | 208 | 41 | 93 | 74 | 208 | 25 | 68 | 47 | 140 |
| Utica | 203 | 33 | 59 | 86 | 178 | 30 | 45 | 66 | 141 | 26 | 41 | 62 | 129 |
| Vandalia | 142 | 52 | 36 | 38 | 126 | 50 | 32 | 34 | 116 | 48 | 32 | 32 | 112 |
| †Vanderbilt | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Vassar | 482 | 78 | 108 | 164 | 350 | 74 | 103 | 153 | 330 | 69 | 98 | 142 | 309 |
| Vermontville | 189 | 80 | 51 | 70 | 201 | 64 | 50 | 57 | 171 | 63 | 48 | 51 | 162 |
| Vernon | 114 | 30 | 29 | 36 | 95 | 25 | 28 | 32 | 85 | 23 | 26 | 30 | 79 |
| Vicksburg | 318 | 98 | 87 | 136 | 321 | 82 | 76 | 83 | 241 | 77 | 72 | 78 | 227 |
| Wakefield | 597 | 14 | 116 | 373 | 503 | 13 | 113 | 351 | 477 | 11 | 102 | 312 | 425 |
| Waldron | 121 | 31 | 45 | 46 | 122 | 25 | 32 | 38 | 95 | 24 | 29 | 35 | 88 |
| Warren | 116 | ...... | 30 | 42 | 72 | ...... | 28 | 40 | 68 | ...... | 23 | 35 | 58 |
| Watervliet | 286 | 65 | 119 | 108 | 292 | 54 | 98 | 78 | 230 | 48 | 83 | 61 | 192 |
| Wayland | 185 | 125 | 40 | 74 | 239 | 120 | 36 | 70 | 226 | 109 | 34 | 54 | 197 |
| Wayne | 349 | 84 | 126 | 200 | 410 | 76 | 105 | 128 | 309 | 74 | 99 | 117 | 290 |
| Webberville | 149 | 43 | 42 | 45 | 130 | 32 | 36 | 36 | 104 | 31 | 33 | 34 | 98 |
| †Westphalia | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| White Cloud | 246 | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Whitehall | 459 | 84 | 155 | 147 | 386 | 71 | 134 | 132 | 337 | 68 | 129 | 123 | 320 |
| White Pigeon | 158 | 82 | 37 | 70 | 189 | 65 | 31 | 60 | 156 | 62 | 30 | 48 | 140 |
| Williamston | 348 | 96 | 95 | 130 | 321 | 90 | 90 | 120 | 300 | 85 | 87 | 115 | 287 |
| Wolverine | 241 | 43 | 75 | 111 | 229 | 23 | 51 | 74 | 148 | 17 | 37 | 66 | 120 |
| Woodland | 93 | 35 | 18 | 46 | 99 | 28 | 14 | 39 | 81 | 27 | 13 | 37 | 77 |
| †Woodmere | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Zeeland | 569 | 44 | 168 | 264 | 476 | 38 | 155 | 250 | 443 | 40 | 130 | 188 | 358 |

† Not legally graded.

## TABLE XVII.—CONCLUDED.

| Percentage of attendance. | | | | Number of regular teachers employed. | | | | | | | | Portion of superintendent's time devoted to supervision. | No. of special teachers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | High school department. | | Grammar department. | | Primary department. | | Whole school. | | | |
| High school department. | Grammar department. | Primary department. | Whole school. | Men. | Women. | Men. | Women. | Men. | Women. | Men. | Women. | | |
| 88 | 86 | 91 | 88 | 1 | ....... | ....... | 2 | ....... | 4 | 1 | 6 | ....... | ..... |
| 94 | 95 | 93 | 94 | .7 | 2 | ....... | 3 | ....... | 3 | 1 | 8 | 3-10 | ..... |
| 88 | 92 | 94 | 91 | .5 | .5 | .5 | 1.5 | ....... | 3 | 1 | 5 | 1-12 | ..... |
| 96 | 98 | 97 | 97 | 1 | ....... | ....... | 2 | ....... | 1 | 1 | 3 | ....... | ..... |
| 98 | 95 | 94 | 96 | 1 | ....... | ....... | 1.3 | ....... | 1.7 | 1 | 3 | ....... | ..... |
| 95 | 82 | 76 | 84 | 1 | ....... | 1 | .5 | ....... | 1.5 | 2 | 2 | ....... | ..... |
| ....... | ....... | ....... | ....... | ....... | ....... | ....... | ....... | ....... | ....... | ....... | ....... | ....... | ..... |
| 93 | 87 | 85 | 88 | 1 | ....... | ....... | 2 | ....... | 1 | 1 | 3 | ....... | ..... |
| 97 | 96 | 94 | 96 | .8 | 1 | ....... | 1 | ....... | 2 | 1 | 4 | 2-10 | ..... |
| 94 | 95 | 94 | 94 | .8 | 1 | ....... | 3 | ....... | 3 | 1 | 7 | 2-10 | 1 |
| 92 | 95 | 93 | 93 | .9 | ....... | ....... | 2 | ....... | 2 | 1 | 4 | 1-10 | |
| 97 | 95 | 93 | 95 | .9 | 1 | ....... | 1 | ....... | 2 | 1 | 4 | 1-10 | ..... |
| 91 | 97 | 94 | 94 | .8 | 1 | 1 | 3 | 1 | 8 | 3 | 12 | 2-10 | 1 |
| ....... | ....... | ....... | ....... | ....... | ....... | ....... | ....... | ....... | ....... | ....... | ....... | ....... | ..... |
| 94 | 92 | 87 | 91 | 1 | 1 | ....... | 1 | ....... | 2 | 1 | 4 | ....... | ..... |
| 98 | 92 | 95 | 95 | .8 | .5 | ....... | 1.5 | ....... | 2 | 1 | 4 | 2-10 | ..... |
| 90 | 95 | 83 | 80 | .9 | 1 | ....... | 1 | ....... | 1 | 1 | 3 | 1-10 | ..... |
| 90 | 96 | 93 | 93 | 1 | ....... | ....... | 1 | ....... | 1 | 1 | 2 | ....... | ..... |
| 97 | 94 | 96 | 96 | 1 | 3.3 | ....... | 4 | ....... | 5 | 1 | 13 | 7-10 | 1 |
| 85 | 96 | 94 | 92 | 1 | 1 | ....... | 1 | 1 | 1 | 2 | 3 | ....... | ..... |
| 96 | 92 | 90 | 93 | 1.9 | ....... | ....... | 2 | ....... | 3 | 2 | 5 | 1-10 | ..... |
| 97 | 94 | 96 | 96 | 1 | 1 | ....... | 3 | ....... | 2 | 1 | 6 | ....... | 1 |
| 75 | 93 | 90 | 86 | .8 | ....... | ....... | 2 | ....... | 4 | 1 | 6 | 2-10 | ..... |
| 76 | 88 | 85 | 83 | 1 | ....... | ....... | 2 | ....... | 1 | 1 | 3 | ....... | ..... |
| 88 | 86 | 94 | 89 | 1 | ....... | ....... | 1 | ....... | 1 | 1 | 2 | ....... | ..... |
| ....... | ....... | ....... | ....... | ....... | ....... | ....... | ....... | ....... | ....... | ....... | ....... | ....... | ..... |
| 96 | 95 | 94 | 95 | 1.5 | 3 | ....... | 2 | ....... | 5 | 2 | 10 | 1-2 | ..... |
| 61 | 73 | 62 | 65 | 1 | 1 | ....... | 2 | ....... | 1 | 1 | 4 | ....... | ..... |
| 95 | 93 | 91 | 93 | 1 | 1 | ....... | 1 | ....... | 2 | 1 | 4 | ....... | ..... |
| 96 | 97 | 94 | 95 | .9 | 1 | ....... | 1 | ....... | 1 | 1 | 3 | 1-10 | ..... |
| ....... | ....... | ....... | ....... | ....... | ....... | ....... | ....... | ....... | ....... | ....... | ....... | ....... | ..... |
| 93 | 95 | 93 | 94 | .5 | 2.5 | ....... | 3.5 | ....... | 5 | 1 | 11 | 1-2 | 1 |
| 98 | 96 | 90 | 95 | .8 | 2 | ....... | 2 | ....... | 2 | 1 | 6 | 2-10 | ..... |
| 92 | 93 | 93 | 92 | 1 | ....... | 1 | 1 | ....... | 1 | 2 | 2 | ....... | ..... |
| 94 | 95 | 95 | 95 | 1.8 | 2 | ....... | 2 | ....... | 3 | 2 | 7 | 2-10 | ..... |
| 88 | 90 | 89 | 89 | .5 | 1 | ....... | 3 | ....... | 10 | 1 | 14 | 1-2 | ..... |
| 94 | 91 | 92 | 92 | 1 | ....... | ....... | 1 | ....... | 1 | 1 | 2 | ....... | ..... |
| ....... | 85 | 87 | 86 | ....... | ....... | ....... | 1 | ....... | 1 | ....... | 2 | ....... | ..... |
| 89 | 84 | 78 | 84 | .9 | 1 | ....... | 3 | ....... | 2 | 1 | 6 | 1-10 | ..... |
| 91 | 94 | 77 | 87 | 2 | 1 | ....... | 1 | ....... | 1 | 2 | 3 | 1-20 | ..... |
| 97 | 94 | 91 | 94 | .7 | 2.2 | ....... | 2.8 | ....... | 3 | 1 | 8 | 3-10 | ..... |
| 97 | 91 | 94 | 94 | 1 | ....... | ....... | 1 | ....... | 1 | 1 | 2 | 1-15 | ..... |
| ....... | ....... | ....... | ....... | ....... | ....... | ....... | ....... | ....... | ....... | ....... | ....... | ....... | ..... |
| ....... | ....... | ....... | ....... | .8 | 1 | ....... | 1 | ....... | 2 | 1 | 4 | 2-10 | ..... |
| 97 | 96 | 93 | 95 | .7 | 1 | ....... | 4 | ....... | 4 | 1 | 9 | 3-10 | ..... |
| 93 | 96 | 82 | 90 | .8 | 2 | ....... | 1 | ....... | 2 | 1 | 5 | 2-10 | ..... |
| 94 | 90 | 96 | 95 | .7 | 3 | 1 | 3 | ....... | 3 | 2 | 9 | 3-10 | ..... |
| 74 | 73 | 89 | 78 | 1 | 1 | ....... | 2 | ....... | 2 | 1 | 5 | ....... | ..... |
| 91 | 91 | 95 | 92 | 1 | ....... | ....... | 1 | ....... | 1 | 1 | 2 | ....... | ..... |
| ....... | ....... | ....... | ....... | ....... | ....... | ....... | ....... | ....... | ....... | ....... | ....... | ....... | ..... |
| 95 | 84 | 75 | 85 | .8 | 1 | ....... | 4 | ....... | 5 | 1 | 10 | 2-10 | 1 |

## TABLE XVIII.

*Miscellaneous statistics of city and graded village schools as*

| Incorporated cities. | Average number pupils to each teacher. | | | | Number of non-resident pupils. | | | | Rate of tuition per year. | | | Average age of class. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | High school department. | Grammar department. | Primary department. | Whole school. | High school department. | Grammar department. | Primary department. | Whole school. | High school department. | Grammar department. | Primary department. | Graduated. | Promoted to high school. | Promoted to grammar department. |
| Adrian | 38 | 38 | 35 | 35 | 60 | 5 | .... | 65 | $20 00 | $16 00 | $12 00 | 18.5 | 14.5 | 10.5 |
| Albion | 32 | 46 | 38 | 38 | 48 | 3 | 2 | 53 | 15 20 | 15 20 | 13 30 | ...... | ...... | ...... |
| Alma | 22 | 32 | 37 | 31 | 20 | 7 | 1 | 28 | 10 00 | 10 00 | 10 00 | 19 | ...... | ...... |
| Alpena | ...... | ...... | ...... | ...... | .... | .... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... |
| Ann Arbor | 28 | ‡ 34 | ...... | 33 | 179 | ‡12 | .... | 191 | 24 00 | 15 00 | 9 00 | 18.7 | 15. | 10.3 |
| †Au Gres | ...... | ...... | ...... | ...... | .... | .... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... |
| Au Sable | 30 | 44 | 41 | 40 | .... | 1 | .... | 1 | 9 00 | 6 00 | 4 50 | 17 | 14 | 8 |
| Bad Axe | 30 | 25 | 65 | 37 | 20 | 3 | 2 | 25 | 15 00 | 12 50 | 10 00 | 18 | 14 | 10 |
| Battle Creek | 25 | 35 | 34 | 34 | 50 | 17 | 19 | 86 | 24 00 | 18 00 | 12 00 | 18.5 | 14.5 | 10.5 |
| Bay City | 21 | 28 | 35 | 32 | 145 | 90 | 34 | 269 | 25 00 | 13 75 | 10 00 | 19 | 15 | 10.6 |
| Beaverton | 18 | 30 | 37 | 29 | 10 | .... | .... | 10 | 12 50 | 7 50 | 5 00 | 17 | ...... | ...... |
| Belding | 20 | 31 | 35 | 30 | 18 | 8 | 1 | 27 | 16 00 | 16 00 | 16 00 | 18 | 13 | 9 |
| Benton Harbor | 30 | 37 | 36 | 35 | 34 | 11 | 10 | 55 | 18 00 | 14 40 | 14 40 | 18 | 13 | 10 |
| Bessemer | 21 | 38 | 43 | 37 | 8 | .... | .... | 8 | 30 00 | ...... | ...... | 18 | 14 | 10 |
| Big Rapids | 21 | 35 | 33 | 30 | 8 | 2 | 2 | 12 | 18 00 | 15 00 | 12 00 | 19.5 | ...... | ...... |
| Cadillac | 27 | 37 | 48 | 40 | 9 | .... | .... | 9 | 9 00 | ...... | ...... | 18 | 13.5 | 8.5 |
| Charlevoix | 18 | 31 | 30 | 27 | 8 | 4 | 1 | 13 | 11 70 | 9 00 | 9 00 | ...... | ...... | ...... |
| Charlotte | 28 | 36 | 33 | 33 | 51 | 18 | 4 | 73 | 4 75 | 3 80 | 3 32 | 18 | ...... | ...... |
| Cheboygan | 32 | 37 | 40 | 38 | 25 | 3 | 1 | 29 | 15 00 | 15 00 | 10 00 | 18 | ...... | ...... |
| Clare | 16 | 31 | 46 | 33 | 22 | .... | .... | 22 | 10 00 | ...... | ...... | 17 | ...... | ...... |
| Coldwater | 31 | 24 | 34 | 31 | 34 | 7 | 5 | 48 | 20 00 | 16 00 | 12 00 | 19 | 15.3 | 11.5 |
| Coleman | 15 | 50 | 49 | 38 | 10 | .... | .... | 10 | 10 00 | ...... | ...... | 17 | ...... | ...... |
| Corunna | 23 | 25 | 35 | 29 | 22 | 8 | 9 | 39 | 10 00 | 7 00 | 7 00 | 19 | 15 | 10 |
| Croswell | 27 | 42 | 50 | 40 | 19 | 2 | .... | 21 | 10 00 | 10 00 | 10 00 | 19 | 14 | 10 |
| Crystal Falls | 18 | 42 | 36 | 34 | .... | .... | .... | .... | ...... | ...... | ...... | 17 | 14 | 10 |
| Detroit | 23 | 29 | 33 | 33 | .... | .... | .... | 95 | 40 00 | 14 00 | 14 00 | ...... | ...... | ...... |
| Dowagiac | 23 | 33 | 37 | 33 | 26 | 7 | 3 | 36 | 16 00 | 12 00 | 10 00 | 18.5 | 14.5 | 10.6 |
| East Tawas | 27 | 50 | 46 | 43 | 1 | .... | .... | 1 | ...... | ...... | ...... | 18 | 14 | 10 |
| Eaton Rapids | 25 | 33 | 34 | 30 | 38 | 6 | 2 | 46 | 16 00 | 12 00 | 12 00 | 18 | 14 | 10 |
| Escanaba | 28 | 32 | 45 | 40 | 10 | 6 | 2 | 18 | 30 00 | 20 00 | 15 00 | 18 | 14 | 10 |
| Flint | 24 | 40 | 35 | 34 | 55 | 14 | 9 | 78 | 24 00 | 20 00 | 12 00 | 18.5 | ...... | ...... |
| Gladstone | 24 | 39 | 49 | 41 | .... | .... | .... | .... | ...... | ...... | ...... | 18.5 | ...... | ...... |
| Gladwin | ...... | ...... | ...... | ...... | .... | .... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... |
| Grand Haven | 27 | 36 | 36 | 35 | 23 | 7 | 9 | 39 | 10 00 | 7 50 | 5 00 | 18.5 | ...... | ...... |
| Grand Ledge, 9 fr | 17 | 36 | 40 | 29 | 30 | 13 | 1 | 44 | 14 00 | 10 00 | 10 00 | 18 | 14 | 9.5 |
| Grand Ledge, 11 fr | 2 | 39 | 50 | 38 | 1 | .... | .... | 1 | 10 00 | ...... | ...... | ...... | 14.2 | 10.5 |
| Grand Rapids | 26 | 28 | 34 | 31 | 51 | 20 | 13 | 84 | 50 00 | 30 00 | 20 00 | 18.6 | 14.9 | 11.3 |
| Greenville | 26 | 40 | 34 | 37 | 29 | 3 | 2 | 34 | 25 00 | 12 00 | 10 00 | 18.5 | ...... | ...... |
| Hancock | 19 | 49 | 50 | 42 | 20 | .... | .... | 20 | 48 00 | 20 00 | 20 00 | 17.8 | 14.3 | 10.4 |
| Harrison | 29 | 38 | 40 | 37 | 7 | 1 | 3 | 11 | 9 00 | 9 00 | 9 00 | 17 | 14 | 8 |
| Harrisville | 24 | 50 | 37 | 37 | 6 | 2 | 2 | 10 | 5 00 | 5 00 | 5 00 | 17 | 14 | 10 |
| Hastings | 22 | 48 | 30 | 33 | 58 | 3 | ... | 61 | 16 00 | 14 00 | 14 00 | 18 | 14 | 10 |
| Hillsdale | 30 | 35 | 34 | 34 | 62 | 18 | 3 | 83 | 15 00 | 12 00 | 9 00 | 18.2 | ...... | ...... |
| Holland | 18 | 42 | 43 | 39 | 10 | 13 | 9 | 32 | 12 00 | 12 00 | 12 00 | 17.8 | 14.8 | 10.7 |
| Hudson | 28 | 35 | 30 | 30 | 54 | 7 | .... | 61 | 15 20 | 12 54 | 9 50 | 19 | 14.6 | 10.4 |
| Ionia | 16 | 17 | 35 | 23 | .... | .... | ... | .. | 20 00 | 15 00 | 10 00 | ...... | ...... | ...... |
| Iron Mountain | 43 | 35 | 43 | 38 | ... | ... | ... | .. | 15 00 | 10 00 | 10 00 | 19 | 14.5 | 10.5 |
| Ironwood | ...... | .... | ... | ...... | ... | ... | ... | .. | ... | ...... | ...... | ... | ...... | ...... |
| Ishpeming | 28 | 65 | 36 | 43 | ... | ... | ... | ... | 25 00 | ...... | ...... | 17.7 | ...... | ...... |
| Jackson | 24 | 35 | 36 | 34 | 28 | 8 | 4 | 40 | 20 00 | 16 00 | 12 00 | 19 | 15 | 11 |
| Kalamazoo | 21 | 36 | 38 | 35 | 22 | 20 | 14 | 56 | 38 00 | 19 00 | 12 16 | 18.5 | ...... | ...... |
| Lansing | 24 | 32 | 38 | 34 | 28 | 16 | 12 | 56 | 4 75 | 2 37 | 2 37 | 16.9 | 14.4 | ...... |
| Lapeer | 20 | 37 | 25 | 26 | 30 | 7 | .. | 37 | 20 00 | 16 00 | 12 00 | 19 | 14 | 10 |
| Ludington | 22 | 32 | 36 | 32 | 27 | 1 | . | 28 | 15 00 | 12 00 | 12 00 | 18 | 14 | 10 |

---

‡ Includes grammar and primary department.
† Not legally graded.

## TABLE XVIII.

*reported by the superintendents for the school year 1905-1906.*

| Number of graduates. | Number of U. S. flags. | Has school kindergarten below primary grade? | Portion of time in first primary devoted to kindergarten work. | Number of grades in the school. | Number of pupils studying— | | | | Does school give special instruction in— | | | | | Has school a commercial course? | Is the compulsory attendance law enforced? | Has school an ungraded department? | Has school a day school for the deaf? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Latin. | Greek. | French. | German. | Vocal music? | Drawing? | Penmanship? | Manual training? | Domestic science? | | | | |
| 39 | .... | No | 1-3 | 12 | 124 | .... | 18 | 70 | Yes | Yes | No | Yes | Yes | No | No | No | No |
| 34 | 5 | Yes | 1-3 | 12 | 66 | .... | .... | 65 | Yes | Yes | No | Yes | No | No | Yes | No | No |
| 7 | 2 | Yes | ...... | 12 | 20 | .... | .... | 12 | Yes | Yes | No | No | No | Yes | Yes | No | No |
| .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| 79 | 6 | No | 1-3 | 12 | 290 | 10 | 101 | 131 | Yes | Yes | No | Yes | Yes | Yes | Yes | No | No |
| .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| 9 | 2 | Yes | 1-2 | 11 | 21 | .... | .... | ...... | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No |
| 6 | 1 | No | 1-4 | 12 | 22 | .... | .... | 9 | Yes | No | No | No | No | No | Yes | No | No |
| 45 | 11 | No | 1-2 | 12 | 259 | 5 | 46 | 73 | Yes | Yes | No | Yes | Yes | No | Yes | Yes | No |
| 73 | 18 | Yes | ...... | 12 | 250 | 3 | 154 | 160 | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes |
| 4 | 4 | No | 1-5 | 12 | 1 | .... | .... | 11 | No | No | No | No | No | Yes | Yes | No | No |
| 11 | .... | Yes | 1-2 | 12 | 38 | .... | .... | 31 | Yes | Yes | Yes | No | No | Yes | Yes | No | No |
| 22 | 4 | No | ...... | 12 | 109 | 3 | .... | 56 | Yes | Yes | Yes | No | No | Yes | Yes | No | No |
| 24 | 4 | No | 1-10 | 12 | 58 | .... | .... | 35 | Yes | Yes | No | No | No | No | Yes | No | No |
| 17 | 4 | No | 1-25 | 13 | 32 | .... | .... | 46 | Yes | Yes | Yes | No | No | Yes | Yes | No | No |
| 17 | 4 | Yes | 1-6 | 12 | 75 | .... | .... | 34 | Yes | Yes | No | No | No | No | Yes | No | No |
| 22 | 1 | No | 1-4 | 12 | 26 | .... | .... | 15 | Yes | Yes | Yes | No | No | Yes | Yes | No | No |
| 24 | 6 | No | 1-3 | 12 | 60 | .... | .... | 76 | No | No | No | No | No | Yes | Yes | No | No |
| 17 | 7 | No | ...... | 12 | 37 | .... | .... | 18 | Yes | Yes | No | No | No | Yes | Yes | Yes | No |
| 6 | 1 | No | ...... | 12 | 24 | .... | .... | 15 | No | No | No | No | No | No | No | No | No |
| 16 | 4 | Yes | 1-4 | 12 | 91 | .... | .... | 46 | Yes | Yes | Yes | Yes | No | Yes | Yes | No | No |
| 1 | 1 | No | 1-4 | 12 | 15 | .... | .... | ...... | No | No | No | No | No | Yes | Yes | No | No |
| 11 | 1 | No | 1-3 | 12 | 25 | .... | .... | 10 | Yes | Yes | No | No | No | No | Yes | No | No |
| 12 | 1 | Yes | 1-3 | 12 | ...... | .... | .... | 20 | No | No | No | No | No | No | Yes | No | No |
| 8 | 11 | Yes | 1-5 | 12 | 52 | .... | .... | 26 | Yes | Yes | No | Yes | No | No | No | No | No |
| 345 | 73 | Yes | ...... | 12 | 1,336 | 77 | 446 | 1,116 | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes |
| 17 | 3 | Yes | ...... | 12 | 51 | .... | .... | 29 | Yes | Yes | Yes | No | No | No | Yes | No | No |
| 9 | 1 | Yes | 1-4 | 12 | 11 | .... | .... | ...... | No | No | Yes | No | No | Yes | Yes | No | No |
| 15 | 2 | No | 1-6 | 12 | 44 | .... | .... | 22 | Yes | Yes | No | Yes | No | No | Yes | No | No |
| 24 | .... | Yes | 1-5 | 12 | 100 | .... | 35 | 62 | Yes | Yes | Yes | No | No | Yes | Yes | No | No |
| 45 | 8 | Yes | 1-5 | 12 | 202 | 7 | 23 | 112 | Yes | Yes | Yes | Yes | No | Yes | Yes | No | No |
| 11 | 1 | Yes | ...... | 12 | 32 | .... | 4 | 21 | No | No | No | No | No | No | No | No | No |
| .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| 18 | 4 | Yes | ...... | 12 | 100 | .... | .... | 45 | Yes | Yes | Yes | No | No | Yes | Yes | No | No |
| 10 | .... | No | 1-2 | 12 | 26 | .... | .... | 21 | Yes | No | No | No | No | No | Yes | No | No |
| .... | 1 | Yes | 1-2 | 12 | ...... | .... | .... | ...... | Yes | Yes | Yes | Yes | No | No | Yes | No | No |
| 174 | 36 | Yes | ...... | 12 | 540 | 7 | 90 | 431 | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes |
| 31 | 1 | No | 1-4 | 12 | 62 | .... | 60 | 22 | Yes | Yes | No | No | No | Yes | Yes | No | No |
| 18 | 3 | No | 1-8 | 12 | 41 | .... | 16 | 25 | No | Yes | Yes | No | No | Yes | Yes | No | No |
| 10 | 1 | No | 2-5 | 12 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 3 | 1 | No | 1-3 | 11 | 4 | .... | .... | ...... | No | No | No | No | No | Yes | Yes | No | No |
| 21 | 3 | No | 1-3 | 12 | 50 | 4 | .... | 32 | Yes | Yes | No | Yes | No | Yes | Yes | No | No |
| 47 | 3 | Yes | ...... | 12 | 125 | .... | .... | 71 | Yes | Yes | No | Yes | No | No | Yes | No | No |
| 23 | 5 | Yes | 1-4 | 12 | 34 | .... | .... | 21 | Yes | Yes | No | No | No | No | Yes | Yes | No |
| 15 | 3 | Yes | 1-4 | 12 | 45 | .... | .... | 22 | No | No | No | No | No | No | No | No | No |
| 19 | 4 | Yes | 1-2 | 12 | 120 | .... | 10 | 40 | Yes | Yes | Yes | No | No | Yes | Yes | No | No |
| 15 | 9 | No | 1-3 | 12 | 45 | .... | .... | 101 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No |
| .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| .... | 8 | Yes | ...... | 12 | 120 | .... | 45 | 68 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes |
| 38 | 16 | No | 1-2 | 13 | 248 | .... | 22 | 223 | Yes | Yes | Yes | Yes | No | Yes | Yes | No | No |
| 60 | 10 | Yes | ...... | 12 | 309 | 6 | 17 | 142 | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes |
| 33 | 12 | No | ...... | 12 | 221 | 13 | .... | 169 | Yes | Yes | ...... | Yes | Yes | No | Yes | No | No |
| 27 | 1 | No | 1-6 | 12 | ...... | .... | .... | ...... | Yes | Yes | Yes | No | No | Yes | Yes | No | No |
| 26 | 6 | No | 1-2 | 12 | 108 | .... | .... | 66 | Yes | Yes | Yes | Yes | Yes | No | Yes | No | No |

## TABLE XVIII.—CONTINUED.

| Incorporated cities. | Average number pupils to each teacher. | | | | Number of non-resident pupils. | | | | Rate of tuition per year. | | | Average age of class. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | High school department. | Grammar department. | Primary department. | Whole school. | High school department. | Grammar department. | Primary department. | Whole school. | High school department. | Grammar department. | Primary department. | Graduated. | Promoted to high school. | Promoted to grammar department. |
| Mackinac Island | 22 | 42 | 44 | 33 | .... | .... | .... | .... | ........ | ........ | ........ | 17 | ...... | ...... |
| Manistee | 20 | 35 | 30 | 30 | 32 | 5 | 2 | 39 | $20 00 | $14 00 | $10 00 | 18 | 14 | 10 |
| Manistique | 21 | 35 | 36 | 33 | 18 | 1 | .... | 19 | 15 00 | 15 00 | 15 00 | 18.4 | 13.4 | 10 |
| Marine City | 24 | 37 | 40 | 35 | 8 | 9 | .... | 17 | 20 00 | 10 00 | 10 00 | 19 | 14.5 | 10 |
| Marquette | 12 | 38 | 31 | 31 | 13 | .... | .... | 13 | ........ | ........ | ........ | 15.6 | 12 | 7.5 |
| Marshall | 24 | 29 | 29 | 27 | 41 | 16 | 6 | 63 | 20 00 | 16 00 | 10 00 | 18 | 14 | 10 |
| Mason | 22 | 38 | 35 | 28 | 29 | 7 | 4 | 40 | 12 00 | 8 00 | 8 00 | 18 | ...... | ...... |
| Menominee | 22 | 44 | 41 | 40 | 6 | 3 | 1 | 10 | 19 00 | 15 00 | 10 00 | 18 | 14 | 10 |
| Midland | 30 | 35 | 43 | 38 | 28 | 5 | 7 | 40 | 15 00 | 10 00 | 7 50 | 18 | 13 | 9 |
| Monroe | 20 | 42 | 39 | 34 | 28 | 16 | 9 | 53 | 8 00 | 6 00 | 4 00 | 17.6 | ...... | ...... |
| Mt. Clemens | 16 | 42 | 35 | 32 | 14 | 7 | 5 | 26 | 12 00 | 10 00 | 10 00 | 18.5 | ...... | ...... |
| Mt. Pleasant | 25 | 25 | 29 | 26 | 37 | 2 | .... | 39 | 13 00 | 10 00 | 10 00 | 18 | ...... | ...... |
| Muskegon | 27 | 22 | 56 | 35 | 28 | 11 | .... | 39 | 36 00 | 20 00 | 16 00 | 18.5 | ...... | ...... |
| Muskegon Heights | 13 | 14 | 28 | 24 | 2 | 3 | .... | 5 | 12 00 | 10 00 | 6 00 | 15 | 14 | 10 |
| Negaunee | 21 | 39 | 43 | 38 | .... | .... | .... | .... | ........ | ........ | ........ | 17 | 13 | ...... |
| Niles | 26 | 46 | 41 | 39 | 30 | 10 | 4 | 44 | 15 20 | 11 40 | 7 60 | 18 | ...... | ...... |
| North Muskegon | ..... | 40 | 43 | 41 | .... | 2 | .... | 2 | ........ | 10 00 | ........ | ...... | 12 | 8 |
| Norway | 15 | 51 | 43 | 38 | 7 | .... | .... | 7 | 35 00 | ........ | ........ | 17.5 | 13.5 | 10.5 |
| Omer | 34 | 40 | 54 | 42 | 2 | .... | .... | 2 | ........ | ........ | ........ | 15 | ...... | ...... |
| Onaway | 9 | 33 | 46 | 34 | 2 | 4 | .... | 6 | 2 00 | 1 50 | 1 00 | 18 | ...... | ...... |
| Owosso | 20 | 33 | 37 | 32 | .... | .... | .... | 44 | 16 00 | 12 00 | 10 00 | 18.6 | 14 | 10 |
| Petoskey | 17 | 35 | 31 | 30 | 10 | 12 | .... | 22 | 14 25 | 9 50 | 9 50 | 18 | ...... | ...... |
| Pontiac | ...... | ...... | ...... | ...... | .... | .... | .... | .... | ........ | ........ | ........ | ...... | ...... | ...... |
| Port Huron | 27 | 30 | 39 | 35 | 16 | 8 | 7 | 31 | 21 00 | 15 00 | 9 00 | 19 | 14 | 10 |
| Rose City | 31 | 33 | 54 | 41 | 4 | 2 | .... | 6 | 10 00 | ........ | ........ | 16 | ...... | ...... |
| Saginaw | 19 | 30 | 29 | 26 | 71 | 10 | 5 | 86 | 22 00 | 18 00 | 14 00 | 17.6 | 14 | 10 |
| Saginaw, W. S. | 22 | 37 | 33 | 33 | .... | .... | .... | 41 | 25 00 | 12 00 | 9 00 | 17.9 | ...... | ...... |
| St. Clair | 24 | 41 | 42 | 38 | 12 | 3 | 1 | 16 | 15 00 | 10 00 | 7 50 | 17.8 | 13.8 | 10 3 |
| St. Ignace | 27 | 41 | 34 | 35 | .... | .... | .... | .... | ........ | ........ | ........ | 17.5 | ...... | ...... |
| St. Johns | 22 | 33 | 38 | 36 | 34 | 5 | 3 | 42 | 20 00 | 12 50 | 12 50 | 18.4 | 14.5 | 10 7 |
| St. Joseph | 20 | 39 | 33 | 31 | 10 | 9 | 3 | 22 | 40 00 | 30 00 | 20 00 | 18 | 14.7 | 11 |
| St. Louis | 13 | 46 | 47 | 34 | 23 | 10 | .... | 33 | ........ | ........ | ........ | 18 | 14 | ...... |
| Sandusky | ...... | ...... | ...... | ...... | .... | .... | .... | .... | ........ | ........ | ........ | ...... | ...... | ...... |
| Sault Ste. Marie | 24 | 36 | 48 | 40 | .... | .... | .... | .... | ........ | ........ | ........ | 18.7 | 14.2 | ...... |
| South Haven | 27 | 32 | 41 | 36 | 72 | 41 | 28 | 141 | 15 20 | 8 55 | 5 70 | 18.5 | 14 | 10 |
| Standish | 17 | 45 | 54 | 38 | 15 | 1 | .... | 16 | 12 50 | 10 00 | 10 00 | ...... | ...... | ...... |
| Stanton | 22 | 40 | 40 | 32 | 12 | .... | .... | 12 | 9 50 | ........ | ........ | 18 | 14 | 12 |
| Sturgis | 19 | 32 | 38 | 32 | 17 | 5 | 11 | 33 | 16 00 | 13 50 | 10 00 | 19 | 14 | 10 |
| Tawas City | 16 | 38 | 39 | 33 | 3 | 1 | .... | 4 | 10 00 | 7 50 | 7 50 | 16 | 13.7 | 11 |
| Three Rivers | ...... | * 28 | 30 | 30 | .... | * 23 | .... | 23 | ........ | *16 00 | 13 00 | 19 | ...... | ...... |
| Traverse City | 29 | 39 | 38 | 36 | .. | .. | .... | 60 | 18 00 | 14 40 | 14 40 | 19 | ...... | ...... |
| West Branch | 33 | 51 | 55 | 49 | 19 | 2 | .... | 21 | 7 50 | 7 50 | 7 50 | 17 | ...... | ...... |
| Wyandotte | 18 | 39 | 41 | 36 | 13 | 3 | 6 | 22 | 12 00 | 10 00 | 10 00 | 17 | 14 | 10 |
| Yale | 16 | 35 | 40 | 30 | 19 | 4 | 3 | 26 | 15 00 | 10 00 | 10 00 | 17 | ...... | ...... |
| Ypsilanti | 27 | 38 | 31 | 33 | 37 | 3 | 3 | 43 | 16 00 | 10 00 | 10 00 | 18 5 | 14 | 10 2 |

* Includes high school and grammar department.

## TABLE XVIII.—Continued.

| Number of graduates. | Number of U. S. flags. | Has school kindergarten below primary grade? | Portion of time in first primary devoted to kindergarten work. | Number of grades in the school. | Number of pupils studying— Latin. | Greek. | French. | German. | Does school give special instruction in— Vocal music? | Drawing? | Penmanship? | Manual training? | Domestic science? | Has school a commercial course? | Is the compulsory attendance law enforced? | Has school an ungraded department? | Has school a day school for the deaf? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 1 | No | ...... | 12 | ...... | .... | 12 | ...... | No | No | No | No | No | Yes | Yes | No | No |
| 35 | 6 | Yes | ...... | 12 | 84 | .... | 11 | 34 | Yes | Yes | No | No | No | Yes | Yes | No | Yes |
| 7 | 3 | Yes | ...... | 12 | 79 | .... | .... | 15 | Yes | Yes | No | No | No | Yes | Yes | No | No |
| 22 | 8 | Yes | 1-2 | 12 | 31 | .... | .... | 26 | Yes | Yes | No | No | No | Yes | Yes | No | No |
| 24 | 11 | Yes | ...... | 12 | 63 | .... | 49 | 56 | Yes | Yes | No | Yes | Yes | Yes | Yes | No | No |
| 27 | 6 | No | 1-3 | 12 | 133 | .... | .... | 68 | Yes | Yes | No | Yes | No | Yes | Yes | No | No |
| 14 | 1 | No | 1-2 | 12 | 42 | .... | .... | 32 | Yes | Yes | No | No | No | No | Yes | No | No |
| 23 | 8 | Yes | ...... | 12 | ...... | .... | .... | ...... | Yes | Yes | No | Yes | Yes | No | Yes | No | Yes |
| 18 | 5 | No | 1-3 | 12 | 49 | .... | .... | 39 | No | No | No | No | No | Yes | Yes | No | No |
| 20 | 2 | No | 1-3 | 12 | 44 | .... | 12 | 24 | Yes | Yes | Yes | Yes | No | No | Yes | No | No |
| .... | 5 | Yes | ...... | 12 | 41 | .... | .... | 15 | Yes | Yes | No | No | No | Yes | No | Yes | No |
| 39 | 4 | No | ...... | 12 | 85 | .... | .... | 53 | Yes | Yes | No | Yes | No | Yes | No | No | No |
| 57 | 15 | Yes | ...... | 12 | 128 | 2 | 37 | 63 | Yes | Yes | No | Yes | Yes | Yes | Yes | No | No |
| 4 | 1 | Yes | ...... | 10 | ...... | .... | .... | ...... | No | No | No | No | No | Yes | No | No | No |
| 7 | 3 | Yes | ...... | 12 | 33 | .... | 13 | 13 | Yes | Yes | Yes | No | No | Yes | Yes | No | No |
| 23 | 6 | No | 1-4 | 12 | 95 | .... | .... | 50 | Yes | Yes | No | No | No | No | Yes | No | No |
| 1 | 1 | No | ...... | 9 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 22 | 4 | No | ...... | 12 | 28 | .... | .... | ...... | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No |
| 4 | 1 | No | 2-5 | 10 | ...... | .... | .... | ...... | No | No | No | No | No | Yes | Yes | No | No |
| 5 | .... | Yes | 1-2 | 12 | 7 | .... | 4 | 8 | No | No | No | No | No | No | No | No | No |
| 17 | 4 | No | ...... | 12 | ...... | .... | .... | ...... | Yes | Yes | No | No | No | No | Yes | No | No |
| 11 | 4 | No | 1-2 | 12 | 48 | .... | .... | 32 | Yes | Yes | Yes | No | No | Yes | Yes | No | No |
| 48 | 14 | No | 1-4 | 12 | 148 | .... | 40 | 75 | Yes | No | No | No | No | Yes | Yes | No | No |
| 5 | 1 | No | 2-5 | 10 | 5 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 59 | 14 | No | ...... | 12 | 140 | .... | 70 | 374 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| 19 | 10 | No | ...... | 12 | 80 | .... | 30 | 102 | Yes | Yes | No | Yes | Yes | Yes | Yes | No | No |
| 9 | 2 | Yes | ...... | 12 | 36 | .... | .... | 28 | Yes | Yes | No | No | No | No | Yes | No | No |
| 16 | 3 | Yes | ...... | 12 | 10 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 14 | .... | No | 1-2 | 13 | 36 | .... | .... | 24 | No | No | No | No | No | Yes | Yes | No | No |
| 7 | 3 | Yes | ...... | 12 | 43 | .... | .... | 25 | Yes | Yes | No | Yes | No | Yes | Yes | No | No |
| 20 | 2 | Yes | ...... | 12 | 21 | .... | .... | 30 | Yes | Yes | Yes | No | No | Yes | Yes | No | No |
| 20 | 7 | Yes | 1-2 | 12 | 91 | .... | 38 | 33 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes |
| 17 | 3 | No | 1-6 | 12 | 65 | .... | .... | 38 | Yes | Yes | No | No | No | Yes | No | No | No |
| .... | 1 | No | ...... | 12 | 12 | .... | .... | 12 | No | No | No | No | No | No | No | No | No |
| 14 | 1 | Yes | 1-4 | 12 | 14 | .... | .... | ...... | No | No | No | No | No | Yes | Yes | No | No |
| 7 | 1 | Yes | ...... | 12 | 34 | .... | ... | 14 | Yes | Yes | No | No | No | Yes | Yes | No | No |
| 2 | 1 | No | 1-8 | 12 | 10 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 22 | 3 | Yes | ...... | 12 | ...... | .... | .... | ...... | Yes | Yes | No | Yes | No | Yes | Yes | No | No |
| 31 | 6 | Yes | 1-2 | 12 | ...... | .... | .... | 115 | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes |
| 5 | 1 | No | 1-10 | 12 | 19 | .... | .... | 19 | No | No | No | No | No | Yes | No | No | No |
| 15 | 3 | Yes | ...... | 12 | 45 | .... | ... | 48 | Yes | Yes | No | No | No | No | No | No | No |
| 6 | 1 | No | 1-5 | 12 | 18 | .... | .... | 8 | No | No | No | No | No | No | Yes | No | No |
| 44 | 3 | Yes | 1-8 | 12 | 139 | .... | 16 | 101 | Yes | Yes | No | Yes | Yes | No | Yes | No | No |

## TABLE XVIII.—Continued.

| Incorporated villages. | Average number pupils to each teacher. | | | | Number of non-resident pupils. | | | | Rate of tuition per year. | | | Average age of class. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | High school department. | Grammar department. | Primary department. | Whole school. | High school department. | Grammar department. | Primary department. | Whole school. | High school department. | Grammar department. | Primary department. | Graduated. | Promoted to high school. | Promoted to grammar department. |
| Addison | 23 | 38 | 55 | 38 | 17 | 2 | .... | 19 | $12 00 | $10 80 | $9 00 | 20 | 13.5 | .... |
| Alanson | 29 | 39 | 48 | 40 | 3 | .... | .... | 3 | 13 50 | .... | .... | .... | .... | .... |
| Algonac | 12 | 29 | 38 | 32 | 4 | 4 | 1 | 9 | 9 00 | 6 75 | 6 75 | 19 | 14 | 11 |
| Allegan | 29 | 50 | 30 | 34 | 28 | 6 | .... | 34 | 19 00 | 13 30 | .... | 18 | .... | .... |
| Almont | 22 | 27 | 43 | 30 | 14 | 6 | .... | 20 | 13 60 | 10 00 | 10 00 | 17 | 13 | 9 |
| Applegate | .... | .... | .... | 75 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Armada | 33 | 30 | 43 | 35 | 38 | 7 | 4 | 49 | 13 50 | 10 12 | 4 50 | 17 | 14 | 10 |
| Ashley | 20 | 24 | 22 | 26 | 1 | .... | .... | 1 | 9 50 | .... | .... | 16 | .... | .... |
| Athens | 20 | 52 | 40 | 34 | 13 | 6 | 5 | 24 | 11 25 | 9 00 | 9 00 | 17.7 | 14.1 | 10 |
| †Atlanta | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Attica | 7 | 62 | 108 | 46 | 2 | 6 | 1 | 9 | 10 00 | 10 00 | 5 00 | 16 | 14 | 9 |
| Augusta | 21 | 31 | 37 | 26 | .... | .... | .... | 27 | 9 00 | .... | .... | 18 | 12.2 | 9 |
| Baldwin | .... | * 44 | 50 | 51 | 2 | 3 | 2 | 7 | .... | .... | .... | 16 | 15 | .... |
| Bancroft | 11 | 36 | 30 | 24 | 5 | 11 | 9 | 25 | 10 00 | 10 00 | 10 00 | 18 | 15 | 10 |
| Bangor | 26 | 51 | 48 | 38 | 40 | 12 | 9 | 61 | 13 30 | 7 35 | 4 75 | 17 | .... | .... |
| Baraga | 12 | 40 | 50 | 40 | .... | .... | .... | .... | .... | .... | .... | 19 | 14 | .... |
| Bear Lake | 20 | 50 | 35 | 35 | 12 | 2 | 1 | 15 | 9 00 | 9 00 | 9 00 | 17 | 15 | 10 |
| Bellaire | 25 | 48 | 33 | 35 | 8 | .... | .... | 8 | 11 25 | 9 00 | 9 00 | 17 | .... | .... |
| Belleville | 32 | 33 | 39 | 34 | 10 | 8 | 2 | 20 | 10 00 | 7 50 | 5 00 | .... | .... | .... |
| Bellevue | 25 | 37 | 45 | 35 | 16 | .... | 1 | 17 | 12 50 | 12 50 | 12 50 | 18 | 14 | 10 |
| Bensonia | 18 | 65 | 37 | 34 | 5 | .... | .... | 5 | 12 60 | 12 60 | 11 25 | 17 | .... | .... |
| Berrien Springs | 18 | 32 | 41 | 33 | 14 | 10 | .... | 24 | .... | .... | .... | 18 | 15 | 10 |
| Birmingham | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Blissfield No. 1 fr | 26 | 33 | 43 | 36 | 15 | 2 | .... | 17 | 10 00 | .... | .... | 17 | .... | .... |
| Blissfield No. 2 fr | 21 | 37 | 45 | 34 | 19 | 6 | 1 | 26 | 10 00 | 10 00 | 10 00 | 17 | 14 | 11 |
| Bloomingdale | 41 | 31 | 36 | 35 | 16 | .... | .... | 16 | 9 00 | .... | .... | 17 | .... | .... |
| Boardman | 36 | 26 | 47 | 39 | 8 | .... | .... | 8 | 9 00 | .... | .... | 15 | .... | .... |
| Boyne City | 16 | 40 | 39 | 34 | 5 | 4 | 9 | 18 | 18 00 | 13 50 | 13 50 | 16.8 | 13.8 | 10.4 |
| Boyne Falls | 16 | 49 | 43 | 31 | 2 | .... | .... | 2 | 9 00 | .... | .... | 16 | .... | .... |
| Breedsville | .... | 28 | 32 | 30 | .... | 8 | 1 | 9 | .... | 9 00 | 6 75 | .... | 15 | .... |
| Brighton | 21 | 30 | 34 | 29 | 12 | 3 | 2 | 17 | .... | .... | .... | 17.5 | 13 | 10 |
| Britton | 33 | 42 | 44 | 40 | 7 | 1 | .... | 8 | 9 00 | 9 00 | .... | 16 | .... | .... |
| Bronson | 32 | 28 | 20 | 26 | .... | .... | .... | 16 | 14 70 | .... | .... | .... | .... | .... |
| Brooklyn | 25 | 55 | 31 | 33 | 26 | 4 | 5 | 35 | 10 00 | 10 00 | 7 50 | 17 | .... | .... |
| Brown City | 45 | 56 | 64 | 57 | 70 | .... | .... | .... | 10 00 | .... | .... | 18 | .... | .... |
| Buchanan | 20 | 20 | 30 | 25 | 29 | 14 | 4 | 47 | 12 67 | 9 50 | 6 33 | 18 | 13.8 | 9.7 |
| Burlington | 28 | 20 | 30 | 26 | 5 | .... | 1 | 6 | 9 00 | .... | .... | .... | .... | .... |
| Burr Oak | 14 | 29 | 27 | 21 | 15 | 2 | .... | 17 | 16 20 | 13 50 | 9 00 | 18 | 13 | 9 |
| Byron | 15 | 27 | 42 | 27 | .... | .... | .... | 18 | 12 50 | 10 00 | 7 50 | 17 | .... | .... |
| Caledonia | 48 | 32 | 35 | 37 | 34 | 2 | 1 | 37 | 10 00 | 10 00 | 10 00 | 13 | 13 | .... |
| Calumet | 16 | 26 | 41 | 35 | 37 | 1 | .... | 38 | 40 00 | 20 00 | .... | 19.7 | 14.7 | 11 |
| Camden | 16 | 30 | 22 | 21 | 19 | 1 | .... | 20 | 9 00 | 9 00 | 9 00 | 18.7 | 14 | 11.3 |
| Capac | 22 | 44 | 48 | 37 | 22 | 2 | 3 | 27 | 15 00 | 12 50 | 10 00 | 16.5 | 14 | 11 |
| Caro | 30 | 36 | 35 | 34 | 65 | 9 | 6 | 80 | 13 00 | 10 00 | 7 80 | 18 | 14 | 10 |
| Carson City | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Carsonville | 58 | 50 | 45 | 50 | .... | .... | .... | 6 | 10 00 | .... | .... | 15 | .... | .... |
| Caseville | 27 | 51 | 62 | 46 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Casnovia | 22 | 21 | 42 | 28 | 11 | 1 | 2 | 14 | 13 50 | 11 25 | 9 00 | 16 | .... | .... |
| Cass City | 32 | 30 | 47 | 37 | 52 | 5 | .... | 57 | .... | .... | .... | 18.2 | 14.5 | 10.3 |
| Cassopolis | 18 | 31 | 32 | 27 | 10 | 4 | 2 | 16 | 13 30 | 9 50 | 9 50 | 16 | 12 | 9 |
| Cedar Springs | 19 | 31 | 52 | 34 | 24 | 1 | 5 | 30 | 14 25 | 11 40 | 6 33 | 19 | 14 | 11 |
| Central Lake | 16 | 30 | 61 | 35 | 12 | 5 | .... | 17 | 13 50 | 9 00 | .... | 17 | 14 | 10 |
| Centreville | 18 | 15 | 31 | 22 | 10 | .... | .... | 10 | 13 00 | 13 00 | .... | 18 | 13 | .... |
| Chelsea | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Chesaning | 16 | 44 | 52 | 31 | 19 | 8 | 5 | 32 | 10 00 | 10 00 | 10 00 | 18 | 14 | 10 |

---

* Includes high school and grammar department.

† Not legally graded.

## TABLE XVIII.—CONTINUED.

| Number of graduates. | Number of U. S. flags. | Has school kindergarten below primary grade? | Portion of time in first primary devoted to kindergarten work. | Number of grades in the school. | Number of pupils studying— | | | | Does school give special instruction in— | | | | | Has school a commercial course? | Is the compulsory attendance law enforced? | Has school an ungraded department? | Has school a day school for the deaf? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Latin. | Greek. | French. | German. | Vocal music? | Drawing? | Penmanship? | Manual training? | Domestic science? | | | | |
| 2 | 1 | Yes | 1-5 | 12 | 10 | .... | .... | 13 | No | No | No | No | No | No | Yes | No | No |
| 3 | 1 | No | ...... | 11 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 3 | 1 | No | 1-4 | 12 | 9 | .... | .... | ...... | No | No | No | No | No | No | No | No | No |
| 27 | 5 | No | 1-5 | 12 | 24 | .... | .... | 33 | Yes | Yes | No | No | No | Yes | Yes | No | No |
| 13 | 1 | No | 1-25 | 12 | 29 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| .... | 1 | No | ...... | 8 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 12 | 1 | No | 1-5 | 12 | 22 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 4 | 2 | No | 1-2 | 10 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 7 | 1 | Yes | 1-3 | 12 | ...... | .... | .... | 15 | No | No | No | No | No | No | Yes | No | No |
| .... | .... | ...... | ...... | ...... | ...... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| 6 | 1 | No | 1-2 | 10 | ...... | .... | .... | 9 | No | No | No | No | No | Yes | Yes | No | No |
| 7 | 1 | No | 2-5 | 12 | 9 | .... | .... | 7 | No | No | No | No | No | No | Yes | No | No |
| .... | 1 | No | ...... | 10 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 5 | 1 | No | ...... | 12 | 5 | .... | .... | ...... | No | No | No | No | No | No | No | No | No |
| 10 | 1 | Yes | ...... | 12 | 15 | .... | .... | 12 | No | No | No | No | No | Yes | Yes | No | No |
| 1 | .... | Yes | ...... | 12 | ...... | .... | .... | ...... | No | No | No | No | No | Yes | Yes | No | No |
| 4 | .... | ...... | ...... | 11 | ...... | .... | .... | ...... | No | No | No | No | No | No | No | No | No |
| 5 | 1 | Yes | ...... | 12 | 25 | .... | .... | ...... | Yes | Yes | Yes | No | No | No | Yes | No | No |
| .... | 1 | No | 1-6 | 12 | ...... | .... | .... | ...... | No | No | No | No | No | Yes | Yes | No | No |
| 10 | .... | No | ...... | 12 | 31 | .... | .... | 17 | Yes | Yes | Yes | No | No | No | Yes | No | No |
| 2 | 1 | No | 1-4 | 12 | 4 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 4 | 1 | No | 1-3 | 12 | 27 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| .... | .... | ...... | ...... | ...... | ...... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| 3 | 1 | No | ...... | 12 | 10 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 8 | 1 | ...... | 1-5 | 12 | 8 | .... | .... | ...... | No | No | No | No | No | Yes | Yes | No | No |
| 4 | 1 | No | 1-4 | 12 | 15 | .... | .... | 15 | No | No | No | No | No | No | Yes | No | No |
| 6 | 1 | No | ...... | 11 | ...... | .... | .... | ...... | No | No | No | No | No | No | No | No | No |
| 7 | .... | No | 1-2 | 12 | 11 | .... | .... | 9 | No | No | No | No | No | No | Yes | No | No |
| 5 | 1 | No | 1-2 | 10 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 8 | 1 | No | 1-10 | 9 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 8 | 1 | No | 1-10 | 12 | 8 | .... | .... | 22 | No | No | No | No | No | No | No | No | No |
| 4 | 1 | No | ...... | 10 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 9 | 1 | Yes | 1-2 | 12 | 14 | .... | .... | 20 | No | No | No | No | No | No | Yes | No | No |
| 11 | 1 | Yes | 1-10 | 12 | 22 | .... | .... | 12 | No | No | No | No | No | Yes | Yes | No | No |
| 7 | 1 | No | ...... | 11 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 16 | 2 | No | ...... | 12 | ...... | .... | .... | ...... | Yes | Yes | Yes | No | No | No | Yes | No | No |
| .... | .... | No | 1-5 | 10 | ...... | .... | .... | ...... | No | No | No | No | No | Yes | Yes | No | No |
| 6 | 1 | No | 1-2 | 12 | 16 | .... | .... | 8 | No | No | No | No | No | No | Yes | No | No |
| 3 | 1 | No | ...... | 11 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 12 | 1 | No | ...... | 11 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 37 | 19 | Yes | ...... | 12 | 136 | .... | .... | 30 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| 4 | .... | No | 1-3 | 12 | 14 | .... | .... | ...... | No | No | No | No | No | Yes | No | No | No |
| 6 | 1 | No | ...... | 12 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 25 | 2 | Yes | 1-5 | 12 | 46 | .... | .... | 38 | Yes | Yes | Yes | No | No | Yes | Yes | No | No |
| .... | .... | ...... | ...... | ...... | ...... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| 9 | 1 | No | ...... | 10 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| .... | 1 | No | ...... | 10 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 11 | 1 | No | 1-5 | 10 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 18 | 1 | Yes | ...... | 12 | 53 | .... | .... | 41 | Yes | No | No | No | No | No | Yes | No | No |
| 3 | .... | No | 1-3 | 12 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 9 | 1 | No | 1-4 | 12 | 4 | .... | .... | 4 | No | No | No | No | No | Yes | Yes | No | No |
| 4 | 1 | Yes | 1-5 | 12 | 20 | .... | .... | 6 | Yes | Yes | Yes | No | No | No | Yes | No | No |
| 3 | 1 | No | 1-6 | 12 | 9 | .... | .... | 2 | No | No | No | No | No | No | No | No | No |
| .... | .... | ...... | ...... | ...... | ...... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| 7 | 1 | Yes | 1-3 | 12 | 15 | 2 | .... | 3 | No | No | No | No | No | No | Yes | No | No |

## TABLE XVIII.—Continued.

| Incorporated villages. | Average number pupils to each teacher. | | | | Number of non-resident pupils. | | | | Rate of tuition per year. | | | Average age of class. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | High school department. | Grammar department. | Primary department. | Whole school. | High school department. | Grammar department. | Primary department. | Whole school. | High school department. | Grammar department. | Primary department. | Graduated. | Promoted to high school. | Promoted to grammar department. |
| Clarkston | 35 | 21 | 39 | 29 | .... | .... | .... | 18 | $13 00 | $13 00 | $10 00 | 17 | ...... | ...... |
| Clayton | 35 | 34 | 22 | 30 | 16 | .... | .... | 16 | 9 00 | 9 00 | 9 00 | 18 | ...... | ...... |
| †Clifford | ...... | ...... | ...... | ...... | .... | .... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... |
| Climax | 11 | 42 | 47 | 28 | 9 | 4 | 1 | 14 | 12 60 | 12 60 | 10 80 | 18 | 13 | 10 |
| Clinton | 18 | 37 | 41 | 29 | 16 | 2 | .... | 18 | ...... | ...... | ...... | 17 | ...... | ...... |
| Clio | 22 | 23 | 18 | 21 | 26 | 9 | 1 | 36 | 14 00 | 12 00 | 10 00 | 18 | 14 | 7 |
| Coloma | 21 | 31 | 35 | 29 | 5 | 3 | 4 | 12 | 13 50 | 13 50 | 13 50 | 16 | 14 | 7 |
| Colon | 14 | 28 | 37 | 23 | 20 | 3 | .... | 23 | 12 15 | 10 80 | 9 00 | 17 | 14 | 10 |
| Columbiaville | 4 | 40 | 54 | 27 | 8 | 3 | 1 | 12 | 10 00 | 10 00 | 10 00 | 16.3 | ...... | ...... |
| Concord | 19 | 28 | 24 | 23 | 17 | 9 | 1 | 27 | 12 00 | 10 50 | 8 00 | 18.2 | ...... | ...... |
| Constantine | 16 | 34 | 58 | 32 | 21 | 5 | 2 | 28 | 15 00 | 12 00 | 12 00 | 18 | ...... | ...... |
| Coopersville | 33 | 42 | 47 | 38 | 26 | .... | .... | 26 | ...... | ...... | ...... | 16 | 13 | 7 |
| Copemish | 33 | 41 | 57 | 43 | 2 | .... | .... | 2 | 11 88 | 9 50 | 9 50 | 17 | ...... | ...... |
| †Croton | ...... | ...... | ...... | ...... | .... | .... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... |
| Custer | ...... | *58 | 55 | 57 | .... | .... | .... | .... | ...... | * 9 00 | ...... | 15 | ...... | ...... |
| †Daggett | ...... | ...... | ...... | ...... | .... | .... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... |
| Dansville | 19 | 15 | 28 | 21 | 9 | 3 | 4 | 16 | 10 00 | 8 00 | 8 00 | 17.3 | 15 | 8.9 |
| Davison | 13 | 21 | 78 | 28 | .... | .... | .... | .... | 15 00 | 12 00 | 12 00 | 17 | ...... | ...... |
| Dearborn | 13 | 82 | 48 | 42 | 7 | 7 | .... | 14 | 10 00 | 8 75 | 7 50 | 17 | ...... | ...... |
| Decatur | 25 | 39 | 47 | 30 | 27 | 12 | 2 | 41 | 13 00 | 10 00 | 7 00 | 18 | 15 | 11 |
| Deckerville | 48 | 30 | 50 | 40 | 24 | .... | .... | 24 | 15 75 | 9 00 | 6 75 | 16 | ...... | ...... |
| Deerfield | 19 | 42 | 36 | 25 | 6 | 3 | 3 | 12 | 9 00 | 6 75 | 4 50 | ...... | 12 | 8 |
| §Delray | ...... | ...... | ...... | ...... | .... | .... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... |
| Detour | 20 | 45 | 23 | 26 | .... | .... | .... | .... | ...... | ...... | ...... | 17 | ...... | ...... |
| Dexter | 23 | 41 | 37 | 31 | 19 | .... | 1 | 20 | 14 40 | 12 60 | 10 80 | 18.6 | 13.7 | 10.2 |
| Douglas | ...... | ...... | ...... | ...... | .... | .... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... |
| Dryden | ...... | * 20 | 60 | 40 | .... | *16 | .... | 16 | ...... | * 12 50 | 10 00 | ...... | 16 | 11 |
| Dundee | 14 | 27 | 33 | 22 | 14 | 3 | .... | 17 | 15 00 | 9 00 | 9 00 | 19 | 14 | 9 |
| Durand | 13 | 46 | 30 | 28 | 12 | 13 | 6 | 31 | 12 00 | 10 00 | 10 00 | 16.6 | 13.7 | 10.2 |
| †Eagle | ...... | ...... | ...... | ...... | .... | .... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... |
| East Grand Rapids | 20 | 23 | 41 | 28 | .... | .... | .... | .... | 20 00 | ...... | ...... | ...... | ...... | ...... |
| East Jordan | 19 | 37 | 37 | 29 | 14 | 7 | 1 | 22 | 9 00 | 6 75 | 4 50 | 18 | 15 | 11 |
| Eau Claire | 20 | 20 | 40 | 29 | 11 | .... | .... | 11 | 9 00 | ...... | ...... | 18 | ...... | ...... |
| Ecorse | 10 | 20 | 46 | 29 | .... | .... | .... | .... | 10 00 | 10 00 | 10 00 | 16 | 14 | 10 |
| Edmore | 34 | 37 | 38 | 35 | 18 | 3 | 1 | 22 | 9 50 | 9 50 | 7 13 | 17 | ...... | 10.6 |
| Elk Rapids | 30 | 30 | 36 | 32 | .... | .... | .... | 22 | 10 00 | ...... | ...... | 18 | 14 | 10 |
| Elkton | 40 | 44 | 51 | 46 | 17 | 8 | 2 | 27 | 12 50 | 6 00 | 4 00 | 17 | 14 | 12 |
| Elsie | 22 | 34 | 70 | 36 | 25 | .... | .... | 25 | 11 88 | 9 50 | 7 13 | 17 | ...... | ...... |
| †Emmet | ...... | ...... | ...... | ...... | .... | .... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... |
| Empire | 20 | 20 | 78 | 50 | 1 | .... | .... | 1 | 9 00 | ...... | ...... | 17.5 | ...... | ...... |
| Essexville | ...... | 38 | 39 | 34 | .... | .... | .... | .... | ...... | ...... | ...... | ...... | 13.7 | ...... |
| Evart | 20 | 26 | 37 | 25 | 21 | .... | .... | 21 | 10 00 | 10 00 | 7 50 | 18 | 14 | ...... |
| †Fairgrove | ...... | ...... | ...... | ...... | .... | .... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... |
| †Fairview | ...... | ...... | ...... | ...... | .... | .... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... |
| Farmington | 26 | 20 | 74 | 39 | .... | .... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... |
| Farwell | 20 | 33 | 32 | 26 | 10 | 1 | 1 | 12 | 9 00 | 6 30 | 6 30 | 18.5 | 13 | 10 |
| Fennville | 23 | 45 | 39 | 36 | 24 | 1 | .... | 25 | 11 25 | 11 25 | 11 25 | 18 | 14 | 11 |
| Fenton | 30 | 40 | 35 | 34 | 31 | 16 | 14 | 61 | 20 00 | 16 00 | 12 00 | 18.6 | 14.3 | 10.3 |
| Fife Lake | 50 | 20 | 51 | 40 | .... | .... | .... | .... | 9 00 | ...... | ...... | ...... | ...... | ...... |
| Flushing | 23 | 36 | 35 | 31 | 20 | 11 | 1 | 32 | 14 00 | 12 00 | 10 00 | 17 | 14.1 | 9.3 |
| Ford | ...... | 45 | 42 | 43 | .... | .... | .... | .... | ...... | ...... | ...... | ...... | 14 | ...... |
| Forestville | ...... | ...... | ...... | ...... | .... | .... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... |
| †Fowler | ...... | ...... | ...... | ...... | .... | .... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... |
| Fowlerville | 26 | 38 | 24 | 27 | 47 | 10 | .... | 57 | 15 00 | 12 00 | 12 00 | 18.5 | ...... | ...... |
| †Frankenmuth | ...... | ...... | ...... | ...... | .... | .... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... |

---

* Includes high school and grammar department.
† Not legally graded.
§ Annexed to Detroit in June, 1906.

## TABLE XVIII.—Continued.

| Number of graduates. | Number of U. S. flags. | Has school kindergarten below primary grade? | Portion of time in first primary devoted to kindergarten work. | Number of grades in the school. | Number of pupils studying— | | | | Does school give special instruction in— | | | | | Has school a commercial course? | Is the compulsory attendance law enforced? | Has school an ungraded department? | Has school a day school for the deaf? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Latin. | Greek. | French. | German. | Vocal music? | Drawing? | Penmanship? | Manual training? | Domestic science? | | | | |
| 4 | 1 | No | ..... | 12 | 6 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 2 | .... | No | ..... | 10 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| .... | .... | ..... | ..... | ..... | ..... | .... | .... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 7 | 1 | No | ..... | 12 | 10 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 6 | 1 | No | ..... | 12 | 21 | .... | .... | 8 | No | No | No | No | No | No | Yes | No | No |
| 6 | 1 | No | 1-6 | 12 | 24 | .... | .... | 8 | Yes | Yes | No | No | No | No | Yes | No | No |
| 5 | .... | Yes | 2-5 | 12 | 7 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 9 | 1 | No | 1-4 | 12 | 12 | .... | .... | 12 | No | No | No | No | No | Yes | Yes | No | No |
| 3 | 1 | No | 1-3 | 11 | ...... | .... | .... | ...... | No | No | No | No | No | No | No | No | No |
| .... | 1 | No | 1-3 | 12 | 4 | .... | .... | ...... | Yes | Yes | Yes | No | No | No | Yes | No | No |
| 9 | 1 | No | 1-3 | 12 | 21 | .... | .... | 10 | No | No | No | No | No | No | Yes | No | No |
| 17 | .... | No | 1-3 | 11 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 7 | 1 | No | ...... | 10 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| .... | .... | ..... | ..... | ..... | ..... | .... | .... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 2 | 1 | No | 1-5 | 10 | 2 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| .... | .... | ..... | ..... | ..... | ..... | .... | .... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 3 | .... | No | ...... | 12 | 2 | .... | .... | ...... | No | No | No | No | No | Yes | Yes | No | No |
| 11 | 1 | No | ...... | 11 | 22 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 1 | 1 | No | 1-3 | 12 | ...... | .... | .... | ...... | Yes | Yes | Yes | No | No | No | No | No | No |
| 10 | 1 | Yes | ...... | 12 | 29 | .... | .... | 28 | No | No | No | No | No | No | Yes | No | No |
| 6 | 1 | Yes | ...... | 10 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 1 | .... | No | 1-4 | 12 | 3 | .... | .... | ...... | No | No | .No | No | No | No | Yes | No | No |
| .... | .... | ..... | ..... | ..... | ..... | .... | .... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 2 | 1 | Yes | 1-4 | 10 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | Yes | No |
| 9 | 1 | No | 1-6 | 12 | 26 | .... | .... | 11 | Yes | No | No | No | No | No | Yes | No | No |
| .... | .... | ..... | ..... | ..... | ..... | .... | .... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| .... | 1 | No | ...... | 10 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 10 | 1 | No | 1-2 | 12 | 10 | .... | .... | 12 | No | No | No | No | No | Yes | Yes | No | No |
| 10 | 2 | Yes | 1-8 | 12 | 16 | .... | .... | ...... | No | No | No | No | No | Yes | Yes | No | No |
| .... | .... | ..... | ..... | ..... | ..... | .... | .... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| .... | 1 | No | ...... | 8 | ...... | .... | .... | ...... | No | No | No | No | No | No | No | No | No |
| 5 | .... | No | 1-3 | 12 | 32 | .... | .... | 4 | Yes | No | No | No | No | No | Yes | Yes | No |
| 2 | 1 | No | 1-2 | 12 | 8 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 2 | 1 | No | ...... | 10 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 7 | 1 | Yes | ...... | 11 | ...... | .... | .... | ...... | No | No | No | No | No | No | No | No | No |
| 9 | 2 | Yes | ...... | 12 | 27 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 6 | .... | No | 1-3 | 11 | ...... | .... | .... | ...... | No | No | No | No | No | Yes | Yes | No | No |
| 10 | 1 | No | 1-5 | 11 | 20 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| .... | .... | ..... | ..... | ..... | ..... | .... | .... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 2 | 1 | No | 1-2 | 11 | 9 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 10 | 1 | Yes | 1-2 | 8 | ...... | .... | .... | ...... | Yes | Yes | No | No | No | No | Yes | No | No |
| 14 | 1 | Yes | ...... | 12 | 18 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| .... | .... | ..... | ..... | ..... | ..... | .... | .... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| .... | .... | ..... | ..... | ..... | ..... | .... | .... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| .... | 1 | No | ...... | 12 | ...... | .... | .... | ...... | Yes | Yes | No | No | No | No | Yes | No | No |
| 2 | 1 | No | 1-10 | 12 | 14 | .... | .... | 11 | No | No | No | No | No | Yes | No | No | No |
| 4 | 1 | No | ...... | 12 | 14 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 16 | 1 | No | 1-3 | 12 | 46 | .... | .... | 50 | Yes | Yes | No | No | No | No | Yes | No | No |
| 8 | 1 | No | 1-16 | 10 | ...... | .... | .... | ...... | No | No | No | No | No | Yes | Yes | No | No |
| 8 | 1 | No | 1-3 | 12 | 18 | .... | .... | ...... | No | No | No | No | No | Yes | Yes | No | No |
| 6 | .... | Yes | 1-5 | 8 | ...... | .... | .... | ...... | Yes | No | Yes | No | No | No | Yes | No | No |
| .... | .... | ..... | ..... | ..... | ..... | .... | .... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| .... | .... | ..... | ..... | ..... | ..... | .... | .... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 8 | 1 | Yes | 1-2 | 12 | 8 | .... | .... | 6 | Yes | No | No | No | No | Yes | Yes | No | No |
| .... | .... | ..... | ..... | ..... | ..... | .... | .... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |

## TABLE XVIII.—Continued.

| Incorporated villages. | Average number pupils to each teacher. | | | | Number of non-resident pupils. | | | | Rate of tuition per year. | | | Average age of class. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | High school department. | Grammar department. | Primary department. | Whole school. | High school department. | Grammar department. | Primary department. | Whole school. | High school department. | Grammar department. | Primary department. | Graduated. | Promoted to high school. | Promoted to grammar department. |
| Frankfort | 33 | 31 | 40 | 35 | 5 | 3 | 1 | 9 | $10 00 | $10 00 | $5 00 | 17 | 14 | 10 |
| †Fraser | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Fremont | 20 | 31 | 40 | 30 | 22 | 2 | .... | 24 | 15 00 | 10 00 | 10 00 | 18 | 14 | 10 |
| Fruitport | .... | * 25 | 38 | 44 | 2 | .... | .... | 2 | 9 00 | .... | .... | 16 | .... | .... |
| Gagetown | .... | * 35 | 37 | 36 | 16 | .... | .... | 16 | 10 00 | .... | .... | 16 | .... | .... |
| Gaines | 30 | 35 | 37 | 34 | 13 | 7 | .... | 20 | 12 50 | 10 00 | 7 50 | 18 | .... | .... |
| Galesburg | 21 | 23 | 32 | 23 | 33 | 7 | 10 | 50 | 12 60 | 10 80 | 7 80 | 17.7 | 14.7 | 10 |
| Galien | 26 | 35 | 38 | 33 | 15 | 2 | 1 | 18 | 13 50 | 13 50 | 4 50 | 18 | 14 | 10 |
| †Garden | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Gaylord | 15 | 32 | 45 | 33 | 8 | 6 | 3 | 17 | 10 00 | 8 00 | 6 00 | 15 | 13 | .... |
| †Glenwood | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Gobleville | 24 | 35 | 50 | 35 | 23 | .... | .... | 23 | 10 00 | 7 50 | 7 50 | 17 | 14 | 8 |
| Grandville | 36 | 31 | 55 | 41 | 24 | 7 | .... | 31 | 12 50 | 12 50 | 12 50 | 17 | 14 | 10 |
| Grant | .... | * 36 | 55 | 50 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Grass Lake | 15 | 37 | 36 | 27 | 13 | 4 | .... | 17 | 15 00 | 12 00 | 9 00 | 17 | 13 | 10 |
| Grayling | 19 | 32 | 49 | 36 | .... | .... | .... | .... | .... | .... | .... | 16 | 11 | 7 |
| †Grosse Pointe | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Grosse Pointe Farms | .... | 40 | 34 | 35 | .... | .... | .... | 1 | .... | .... | .... | .... | 15 | .... |
| Hamtramck | .... | 24 | 59 | 46 | .... | 4 | 9 | 13 | .... | 7 50 | 7 50 | .... | 14 | 10 |
| Hanover | 31 | 25 | 25 | 27 | 23 | 5 | 1 | 29 | 12 00 | 12 00 | 9 00 | 18 | 14 | 11 |
| Harbor Beach | 20 | 39 | 39 | 33 | 10 | 1 | 1 | 12 | 11 50 | 10 00 | 7 00 | 18 | 14 | 10.9 |
| Harbor Springs | 23 | 36 | 36 | 34 | 3 | 2 | .... | 5 | 7 00 | 6 75 | 6 75 | 17 | 15 | .... |
| Harrietta | 20 | 41 | 57 | 39 | 2 | 1 | 5 | 8 | .... | .... | .... | 16 | .... | .... |
| Hart | 32 | 28 | 36 | 33 | 35 | 4 | .... | 39 | 12 00 | 9 50 | .... | 17 | .... | .... |
| Hartford | 30 | 48 | 31 | 30 | .... | .... | .... | 58 | 13 50 | 9 00 | 6 00 | .... | .... | .... |
| Hersey | 27 | 39 | 31 | 30 | 13 | .... | .... | 13 | 10 00 | 5 00 | .... | .... | 13 | 10 |
| Hesperia | 17 | 27 | 55 | 34 | .... | .... | .... | .... | 12 00 | 8 00 | 8 00 | 19 | 14 | .... |
| Highland Park | .... | 25 | 35 | 34 | .... | 4 | 5 | 9 | .... | 12 00 | .... | .... | 14 | 12 |
| †Hillman | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Holly | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Homer | 26 | 44 | 32 | 33 | 42 | .... | .... | 42 | 13 00 | 10 00 | 6 50 | 18 | .... | .... |
| Houghton | 22 | 33 | 37 | 32 | 2 | .... | .... | 2 | 50 00 | 35 00 | 35 00 | 18.5 | 15 | 11.2 |
| Howard City | 16 | 45 | 41 | 30 | 17 | 5 | .... | 22 | 9 50 | 0 50 | 4 75 | 18 | 14 | 11 |
| Howell | 25 | 44 | 32 | 33 | 61 | 8 | 2 | 71 | 16 00 | 13 00 | 13 00 | 18 | 14 | 10 |
| Hubbardston | 20 | 27 | 33 | 27 | 10 | 2 | 2 | 14 | 9 00 | 9 00 | 9 00 | .... | 14 | 8.5 |
| **Hubbell | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Imlay City | 22 | 38 | 54 | 36 | 19 | .... | .... | 19 | 15 00 | .... | .... | 17 | 14 | 10 |
| Iron River | 42 | 21 | 42 | 32 | 8 | 1 | 2 | 11 | 12 00 | 12 00 | 12 00 | .... | .... | .... |
| Ithaca | 23 | 48 | 53 | 41 | 37 | 8 | 2 | 47 | 11 88 | 9 50 | 9 50 | 18 | 14 | .... |
| Jerome | .... | 16 | 34 | 25 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Jonesville | 18 | 44 | 41 | 34 | 17 | 9 | 5 | 31 | 10 00 | 10 00 | 10 00 | 18 | 13.5 | 8.5 |
| Kalkaska | 13 | 41 | 31 | 27 | 13 | 1 | 2 | 16 | 13 50 | 11 25 | 9 00 | 17 | 12.5 | 9 |
| †Kinde | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Kingsley | 30 | 22 | 37 | 29 | .... | .... | .... | .... | 10 80 | .... | .... | .... | .... | .... |
| Kingston | .... | * 64 | 72 | 68 | .... | *18 | 6 | 24 | 10 00 | 10 00 | 5 00 | .... | 14 | .... |
| Laingsburg | 15 | 26 | 38 | 27 | 12 | 4 | .... | 16 | 12 50 | 10 00 | 5 00 | 18 | 13 | 9 |
| Lake Ann | .... | * 31 | 24 | 27 | .... | .... | .... | .... | 9 00 | 9 00 | 9 00 | 17 | .... | .... |
| Lake City | 40 | 27 | 63 | 35 | 2 | 1 | .... | 3 | 9 00 | .... | .... | 16 | 12 | 8 |
| Lake Linden | 21 | 22 | 32 | 27 | 18 | .... | .... | 18 | 40 00 | 30 00 | 20 00 | 18 | .... | .... |
| Lake Odessa | 18 | 40 | 35 | 32 | 15 | 19 | 3 | 37 | 13 30 | 12 40 | 9 50 | 18 | 14 | 10.3 |
| Lakeview | 26 | 37 | 37 | 33 | 34 | 3 | 2 | 39 | 11 88 | 11 88 | 7 13 | 17 | .... | .... |
| L'Anse | 18 | 20 | 43 | 29 | 1 | .... | .... | 1 | .... | .... | .... | 17.6 | 15 | 9.2 |
| ¶Laurium | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Lawrence | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |

* Includes high school and grammer department.
† Not legally graded.
** Report included in Lake Linden.
¶ Report included with Calumet.

## TABLE XVIII.—CONTINUED.

| Number of graduates. | Number of U. S. flags. | Has school kindergarten below primary grade? | Portion of time in first primary devoted to kindergarten work. | Number of grades in the school. | Number of pupils studying— Latin. | Greek. | French. | German. | Does school give special instruction in— Vocal music? | Drawing? | Penmanship? | Manual training? | Domestic science? | Has school a commercial course? | Is the compulsory attendance law enforced? | Has school an ungraded department? | Has school a day school for the deaf? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | 2 | Yes | 1-4 | 12 | ...... | .... | .... | ...... | Yes | Yes | Yes | No | No | No | Yes | No | No |
| .... | .... | ...... | ...... | ...... | ...... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| 5 | 1 | Yes | 1-6 | 12 | 26 | .... | .... | 12 | No | No | No | No | No | Yes | Yes | No | No |
| 1 | .... | No | 1-2 | 10 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 2 | 1 | No | ...... | 10 | ...... | .... | .... | ...... | No | No | No | No | No | No | No | No | No |
| 3 | .... | No | ...... | 10 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 6 | 1 | No | ...... | 12 | 25 | .... | .... | 6 | Yes | No | No | No | No | No | No | No | No |
| 3 | 1 | No | 1-2 | 12 | 3 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| .... | .... | ...... | ...... | ...... | ...... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| 5 | 1 | Yes | ...... | 12 | 15 | .... | .... | 12 | No | No | No | No | No | No | Yes | No | No |
| .... | .... | ...... | ...... | ...... | ...... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| 6 | 1 | No | ...... | 12 | 10 | .... | .... | 16 | No | No | No | No | No | No | Yes | No | No |
| 10 | 1 | No | 1-10 | 12 | 12 | .... | .... | 10 | No | No | No | No | No | Yes | Yes | No | No |
| 3 | 1 | No | ...... | 11 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 12 | 1 | No | 1-5 | 12 | 16 | .... | .... | 17 | Yes | Yes | Yes | No | No | No | Yes | No | No |
| 14 | 1 | No | 1-3 | 12 | 5 | .... | .... | 7 | Yes | Yes | Yes | No | No | Yes | Yes | No | No |
| .... | .... | ...... | ...... | ...... | ...... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| 7 | 1 | No | ...... | 8 | ...... | .... | .... | ...... | No | No | No | No | No | No | No | No | No |
| 9 | 1 | Yes | ...... | 8 | ...... | .... | .... | ...... | No | Yes | No | No | No | No | No | No | No |
| 9 | 1 | Yes | 1-4 | 12 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 4 | 1 | No | 1-2 | 12 | 30 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 7 | 1 | Yes | ...... | 12 | 24 | .... | .... | 6 | No | No | No | No | No | No | Yes | No | No |
| 2 | 1 | Yes | ...... | 8 | ...... | .... | .... | ...... | No | No | No | No | No | No | No | No | No |
| 12 | 1 | Yes | 1-4 | 12 | 12 | .... | .... | ...... | Yes | Yes | Yes | No | No | No | Yes | No | No |
| 10 | 1 | No | 1-2 | 12 | ...... | .... | .... | ...... | Yes | Yes | Yes | No | No | Yes | Yes | No | No |
| .... | 1 | No | 1-4 | 12 | ...... | .... | .... | ...... | No | No | No | No | No | Yes | Yes | No | No |
| 3 | 1 | No | 1-5 | 12 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 13 | 1 | Yes | 1-4 | 8 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| .... | .... | ...... | ...... | ...... | ...... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| .... | .... | ...... | ...... | ...... | ...... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| 25 | 1 | ...... | 1-5 | 12 | 20 | .... | .... | 15 | Yes | Yes | No | No | No | No | Yes | No | No |
| 7 | 5 | Yes | ...... | 12 | 37 | .... | .... | 25 | No | Yes | Yes | No | No | Yes | Yes | No | No |
| 6 | 1 | Yes | 1-5 | 12 | 40 | .... | .... | ...... | Yes | Yes | No | No | No | No | Yes | No | No |
| 15 | 3 | No | 1-5 | 12 | 61 | 3 | .... | 44 | Yes | Yes | Yes | Yes | No | Yes | Yes | No | No |
| 6 | 1 | No | 1-4 | 11 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| .... | .... | ...... | ...... | ...... | ...... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| 5 | 1 | No | 1-8 | 12 | 20 | .... | .... | 6 | No | No | No | No | No | No | Yes | No | No |
| .... | 1 | Yes | ...... | 12 | 6 | .... | .... | 20 | No | No | No | No | No | No | Yes | No | No |
| 11 | 1 | Yes | ...... | 12 | 40 | .... | .... | 20 | Yes | Yes | Yes | No | No | Yes | Yes | No | No |
| .... | 1 | No | ...... | 10 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 11 | 1 | Yes | 1-3 | 12 | 17 | .... | .... | 17 | No | No | No | No | No | No | Yes | No | No |
| 9 | 1 | Yes | 1-4 | 12 | 20 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| .... | .... | ...... | ...... | ...... | ...... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| .... | .... | No | ...... | 10 | ...... | .... | .... | ...... | No | No | No | No | No | Yes | Yes | No | No |
| 3 | 1 | No | ...... | 10 | ...... | .... | .... | ...... | No | No | No | No | No | Yes | Yes | No | No |
| 7 | 1 | ...... | 1-2 | 12 | 5 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 5 | 1 | No | ...... | 10 | ...... | .... | .... | ...... | No | No | No | No | No | No | No | No | No |
| .... | 1 | No | ...... | 12 | 3 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 22 | 5 | Yes | 1-2 | 12 | 51 | .... | 22 | 23 | Yes | Yes | No | No | No | Yes | Yes | No | No |
| 4 | 1 | No | 1-6 | 12 | 6 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 10 | 1 | Yes | ...... | 12 | 5 | .... | .... | ...... | No | No | No | No | No | Yes | Yes | No | No |
| 9 | 6 | No | 1-2 | 12 | 8 | .... | .... | ...... | No | No | No | No | No | Yes | No | No | No |
| .... | .... | ...... | ...... | ...... | ...... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| .... | .... | ...... | ...... | ...... | ...... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |

## TABLE XVIII.—Continued.

| Incorporated villages. | Average number pupils to each teacher. | | | | Number of non-resident pupils. | | | | Rate of tuition per year. | | | Average age of class. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | High school department. | Grammar department. | Primary department. | Whole school. | High school department. | Grammar department. | Primary department. | Whole school. | High school department. | Grammar department. | Primary department. | Graduated. | Promoted to high school. | Promoted to grammar department. |
| Lawton | 29 | 37 | 52 | 40 | 25 | 10 | 5 | 40 | $9 00 | $7 20 | $5 40 | 17 | .... | .... |
| Leonard | 31 | 31 | 45 | 36 | 2 | 1 | .... | 3 | 10 00 | 7 50 | 5 00 | 16 | .... | .... |
| Le Roy | 26 | 37 | 35 | 35 | 15 | 5 | 1 | 21 | 4 50 | .... | .... | 17 | .... | .... |
| Leslie | 37 | 38 | 47 | 41 | .... | .... | .... | 50 | 15 00 | 12 00 | 9 00 | 18 | 14 | 10 |
| Lexington | 19 | 46 | 26 | 26 | 8 | .... | 2 | 10 | 10 00 | 8 00 | 6 50 | 17 | 13 | 10 |
| Linden | 23 | 22 | 24 | 23 | 30 | .... | .... | 30 | 10 00 | 7 50 | 7 50 | 12 | 11 | 11 |
| Lisbon | .... | * 26 | 38 | 32 | .... | * 6 | .... | 6 | 18 00 | .... | .... | 16 | .... | .... |
| Litchfield | 25 | 27 | 62 | 32 | 22 | 18 | 3 | 43 | 12 00 | 12 00 | 9 00 | 18 | 14 | 10 |
| Lowell | 38 | 57 | 36 | 42 | 28 | 2 | .... | 30 | 16 00 | 10 00 | 7 00 | 17 | 12 | .... |
| Luther | 30 | 39 | 55 | 44 | .... | .... | .... | .... | .... | .... | .... | 18 | 13 | .... |
| Lyons | 16 | 27 | 49 | 28 | 12 | 5 | 1 | 18 | 6 00 | 6 00 | 6 00 | 18 | 15 | 10 |
| Mackinaw City | 30 | 32 | 56 | 44 | 1 | 1 | .... | 2 | .... | .... | .... | 16 | 16 | 15 |
| Mancelona | 25 | 34 | 34 | 32 | 11 | 1 | 2 | 14 | 10 80 | 9 00 | 6 75 | 18 | 13.6 | 8 |
| Manchester | 22 | 37 | 44 | 34 | 28 | 3 | .... | 31 | 15 00 | 12 00 | .... | 18 | 13 | 9 |
| Manton | 15 | 46 | 46 | 35 | 11 | 22 | 2 | 35 | 13 95 | 12 15 | 12 15 | 18 | 14 | 10 |
| Maple Rapids | 30 | 34 | 48 | 35 | 16 | 1 | 1 | 18 | 12 00 | 10 00 | 10 00 | 17 | 12 | 9 |
| Marcellus | 19 | 38 | 38 | 30 | 30 | 16 | 5 | 51 | 11 70 | 11 70 | 11 70 | 17.5 | 15.5 | 9.8 |
| Marion | 34 | 50 | 50 | 46 | 6 | 1 | 1 | 8 | 9 00 | 6 75 | 6 75 | 17 | .... | .... |
| †Marlborough | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Marlette | 26 | 35 | 35 | 32 | 50 | 6 | 3 | 59 | 12 50 | 7 50 | 7 50 | 18 | 15 | 13 |
| †Maybee | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Mayville | 28 | 56 | 48 | 42 | 18 | .... | .... | 18 | 10 00 | 8 00 | 8 00 | 17 | 13 | 8.9 |
| McBain | 12 | 30 | 43 | 32 | 5 | .... | .... | 5 | 9 00 | .... | .... | .... | 16.5 | 10.5 |
| McBrides | 26 | 45 | 43 | 38 | 13 | 2 | 2 | 17 | 9 50 | 7 13 | 7 13 | .... | .... | .... |
| Mecosta | 40 | 54 | 38 | 44 | 2 | .... | .... | 2 | 6 75 | .... | .... | .... | .... | .... |
| Memphis | 26 | 31 | 41 | 33 | 28 | 2 | .... | 30 | 12 50 | 12 50 | .... | 17 | 14 | 10 |
| Mendon | 23 | 23 | 37 | 27 | 25 | 6 | 4 | 35 | 12 60 | 11 25 | 11 25 | 18 | .... | .... |
| †Merrill | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Mesick | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Metamora | 33 | 27 | 26 | 29 | 12 | 4 | .... | 16 | 15 00 | 10 00 | 10 00 | 17 | 13 | 9 |
| Middleville | 19 | 30 | 32 | 23 | 20 | .... | 9 | 29 | 12 00 | 10 50 | 9 00 | 18 | .... | .... |
| Milan | 51 | 32 | 50 | 36 | 31 | .... | .... | 31 | 13 50 | 9 00 | 9 00 | 18 | 14 | 10.5 |
| Milford | 15 | 38 | 25 | 25 | 42 | 10 | 4 | 56 | 14 00 | 10 00 | 10 00 | 17 | 13 | 10 |
| Millersburg | 7 | 30 | 57 | 38 | .... | .... | .... | 8 | .... | .... | .... | .... | .... | .... |
| Millington | 33 | 54 | 48 | 42 | 42 | 1 | 3 | 46 | 10 00 | 10 00 | 10 00 | 15.5 | .... | .... |
| Minden | 28 | 34 | 55 | 39 | .... | .... | .... | 10 | 7 20 | .... | .... | 13 | .... | .... |
| Montague | 35 | 38 | 42 | 38 | 18 | 7 | 3 | 28 | 9 00 | 4 50 | 4 50 | 19 | 13 | 9 |
| †Montrose | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Morenci | 21 | 57 | 39 | 37 | 38 | 4 | 1 | 43 | 14 00 | 12 50 | 11 00 | 18 | 14 | 9 |
| Morley | 46 | 22 | 30 | 33 | 9 | .... | .... | 9 | 7 00 | 5 00 | 5 00 | 16 | .... | .... |
| Morrice | 26 | 20 | 49 | 32 | 6 | 7 | .... | 13 | 10 00 | 10 00 | 7 50 | 18 | 15 | 8 |
| Mt. Morris | 34 | 47 | 44 | 41 | 29 | 3 | 1 | 33 | 12 50 | 10 00 | 10 00 | 18 | 13 | 7 |
| Muir | 12 | 25 | 26 | 22 | 2 | 1 | 1 | 4 | 9 00 | 9 00 | 9 00 | 18 | .... | .... |
| †Mulliken | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Munising | 23 | 27 | 42 | 35 | .... | .... | .... | .... | .... | .... | .... | 19 | 12.5 | 9 |
| Nashville | 23 | 32 | 40 | 30 | 22 | 1 | 4 | 27 | 16 00 | 12 00 | 12 00 | 18 | .... | .... |
| †Naubinway | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Newaygo | 28 | 40 | 39 | 37 | 18 | 3 | 3 | 24 | 13 00 | 8 75 | 7 50 | 17.1 | 13.7 | 11 |
| New Baltimore | 15 | 28 | 40 | 25 | 22 | 4 | .... | 26 | 10 00 | 8 00 | 8 00 | 17.6 | 13.7 | 10.5 |
| Newberry | 12 | 22 | 39 | 27 | .... | .... | .... | .... | .... | .... | .... | 17 | .... | .... |
| †New Boston | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| New Buffalo | 22 | 38 | 53 | 38 | 5 | 1 | ... | 6 | 12 00 | 8 00 | 8 00 | 17 | 12.6 | 7.4 |
| New Haven | 28 | 40 | 42 | 37 | .... | .. | .... | .... | 9 00 | 4 50 | .... | .... | 14 | 10 |
| North Adams | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| North Branch | 27 | 29 | 36 | 31 | 27 | 6 | 2 | 35 | 16 00 | 16 00 | 16 00 | 18.5 | 15 | 10 |
| Northport | 20 | 57 | 45 | 44 | 6 | 6 | 4 | 16 | 9 00 | 9 00 | 9 00 | 18 | 15 | 10 |

---

*Includes high school and grammar department.
† Not legally graded.

TABLE XVIII.—CONTINUED.

| Number of graduates. | Number of U. S. flags. | Has school kindergarten below primary grade? | Portion of time in first primary devoted to kindergarten work. | Number of grades in the school. | Number of pupils studying— Latin. | Greek. | French. | German. | Does school give special instruction in— Vocal music? | Drawing? | Penmanship? | Manual training? | Domestic science? | Has school a commercial course? | Is the compulsory attendance law enforced? | Has school an ungraded department? | Has school a day school for the deaf? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | .... | No | 1-10 | 12 | 6 | .... | .... | 4 | No | No | No | No | No | No | Yes | No | No |
| 3 | 1 | No | ...... | 10 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 9 | 1 | Yes | 1-2 | 12 | ...... | .... | .... | ...... | No | No | No | No | No | No | No | No | No |
| 7 | 1 | No | 1-4 | 12 | 22 | .... | .... | 7 | No | No | No | No | No | Yes | Yes | No | No |
| 5 | 1 | Yes | 1-4 | 12 | ...... | .... | .... | ...... | No | No | No | No | No | Yes | Yes | No | No |
| 14 | 1 | Yes | 1-8 | 11 | 10 | .... | .... | ...... | No | No | No | No | No | No | No | No | No |
| 7 | 1 | ...... | ...... | 10 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 8 | 1 | No | 1-4 | 12 | 12 | .... | .... | ...... | No | No | No | No | No | Yes | Yes | No | No |
| 17 | 3 | Yes | ...... | 12 | 16 | .... | .... | 20 | No | No | No | No | No | No | No | No | No |
| 5 | 1 | No | 1-3 | 11 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 8 | .... | Yes | 1-3 | 12 | 7 | .... | .... | ...... | No | No | No | No | No | Yes | Yes | No | No |
| 3 | 1 | No | 2-3 | 10 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 5 | 2 | Yes | 1-10 | 12 | 52 | .... | .... | ...... | No | No | No | No | No | Yes | Yes | No | No |
| 5 | 1 | No | ...... | 12 | 20 | .... | .... | 22 | Yes | No | No | No | No | No | Yes | No | No |
| 7 | 1 | Yes | ...... | 12 | ...... | .... | .... | 17 | No | No | No | No | No | Yes | Yes | No | No |
| 10 | 1 | No | 1-5 | 11 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 14 | 1 | No | 1-7 | 12 | 20 | .... | .... | 16 | No | No | No | No | No | Yes | Yes | No | No |
| 4 | 1 | No | 1-4 | 12 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| .... | .... | ...... | ...... | ...... | ...... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| 10 | 1 | Yes | 1-4 | 12 | 8 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| .... | .... | ...... | ...... | ...... | ...... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| 7 | 1 | No | 1-2 | 12 | 11 | .... | .... | 11 | No | No | No | No | No | No | Yes | No | No |
| .... | 1 | No | 1-4 | 12 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 6 | 1 | No | ...... | 11 | ...... | .... | .... | ...... | No | No | No | No | No | No | No | No | No |
| 5 | 1 | No | ...... | 10 | 8 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 9 | 1 | No | ...... | 12 | 15 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 7 | 1 | Yes | 1-5 | 12 | 15 | .... |  | ...... | No | No | No | No | No | Yes | Yes | No | No |
| .... | .... | ...... | ...... | ...... | ...... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| .... | .... | ...... | ...... | ...... | ...... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| 12 | 1 | No | 2-5 | 11 | 12 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 7 | .... | No | 1-20 | 12 | 23 | .... | .... | ...... | No | No | No | No | No | Yes | Yes | No | No |
| 10 | 1 | No | 1-3 | 12 | 15 | .... | .... | 12 | No | No | No | No | No | No | No | No | No |
| 12 | 2 | No | ...... | 12 | 38 | .... | .... | 18 | No | No | No | No | No | Yes | Yes | No | No |
| .... | 1 | No | 1-20 | 10 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 5 | 1 | No | 1-2 | 12 | ...... | .... | .... | ...... | No | No | No | No | No | Yes | Yes | No | No |
| 5 | 1 | No | ...... | 9 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 6 | 1 | No | 1-10 | 12 | 21 | .... | .... | 12 | Yes | No | No | No | No | No | Yes | No | No |
| .... | .... | ...... | ...... | ...... | ...... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| 6 | 1 | Yes | 1-10 | 12 | 37 | .... | .... | 9 | No | No | No | No | No | No | Yes | No | No |
| 5 | 1 | No | 1-3 | 10 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 13 | .... | No | ...... | 11 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 3 | 1 | No | ...... | 12 | ...... | .... | .... | ...... | No | No | No | No | No | Yes | Yes | No | No |
| 2 | 1 | No | ...... | 11 | 2 | .... | .... | ...... | No | No | No | No | No | Yes | Yes | No | No |
| .... | .... | ...... | ...... | ...... | ...... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| 5 | 3 | Yes | 1-2 | 12 | 14 | .... | .... | 11 | Yes | Yes | No | No | No | No | Yes | Yes | No |
| 11 | 1 | Yes | ...... | 12 | 26 | .... | .... | 15 | Yes | No | No | No | No | Yes | Yes | No | No |
| .... | .... | ...... | ...... | ...... | ...... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| 17 | 1 | No | 1-6 | 12 | ...... | .... | .... | 24 | No | No | No | No | No | No | Yes | No | No |
| 6 | 1 | Yes | 1-4 | 12 | ...... | .... | .... | 16 | No | No | No | No | No | No | Yes | No | No |
| 9 | 4 | Yes | ...... | 12 | 7 | .... | .... | 17 | No | Yes | Yes | No | No | Yes | Yes | No | No |
| .... | .... | ...... | ...... | ...... | ...... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| .... | 1 | No | ...... | 12 | 6 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| .... | 1 | No | 1-5 | 11 | ...... | .... | .... | ...... | No | No | No | No | No | Yes | Yes | No | No |
| .... | .... | ...... | ...... | ...... | ...... | .... | .... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| 14 | 1 | No | ...... | 12 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 4 | 1 | No | 1-5 | 12 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |

## TABLE XVIII.—Continued.

| Incorporated villages. | Average number pupils to each teacher | | | | Number of non-resident pupils. | | | | Rate of tuition per year. | | | Average age of class. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | High school department. | Grammar department. | Primary department. | Whole school. | High school department. | Grammar department. | Primary department. | Whole school. | High school department. | Grammar department. | Primary department. | Graduated. | Promoted to high school. | Promoted to grammar department. |
| Northville | 19 | 35 | 34 | 33 | 18 | 13 | 1 | 32 | $16 00 | $13 00 | $10 00 | 18 | 14 | 11 |
| Oakley | .... | 40 | 42 | 40 | .... | 3 | 2 | 5 | .... | 4 50 | 4 50 | .... | .... | .... |
| Olivet | 16 | 31 | 36 | 27 | 10 | 12 | 1 | 23 | 12 00 | 10 00 | 10 00 | 15 | 11 | 8 |
| Onekama | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Ontonagon | 15 | 33 | 27 | 26 | .... | .... | .... | .... | .... | .... | .... | 18 | 14 | 11.3 |
| Orion | 17 | 26 | 33 | 25 | 9 | 6 | .... | 15 | 10 00 | 8 00 | 8 00 | 18.5 | 14 | 10 |
| Ortonville | 29 | 32 | 36 | 32 | 19 | 7 | .... | 26 | 10 00 | 10 00 | 7 50 | 17.7 | .... | 10 |
| Oscoda | 22 | 24 | 44 | 32 | .... | .... | .... | .... | .... | .... | .... | 18 | 14 | 11 |
| Otisville | 42 | 35 | 47 | 41 | 19 | .... | 2 | 21 | 10 00 | 8 00 | 6 00 | 17.5 | 12 | 10 |
| Otsego | 21 | 38 | 31 | 30 | 27 | 4 | .... | 31 | 13 00 | 10 50 | 10 50 | 18 | 14 | 10 |
| Otter Lake | .... | * 22 | 35 | 29 | .... | * 8 | 3 | 11 | .... | 6 00 | 6 00 | .... | 14 | 10 |
| Ovid | 28 | 41 | 35 | 34 | 30 | 9 | 1 | 40 | 15 00 | 12 00 | 12 00 | 19.2 | 15.2 | 10.6 |
| †Owendale | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Oxford | 15 | 32 | 34 | 27 | 20 | .... | 1 | 21 | 12 00 | 10 00 | 10 00 | 18 | .... | .... |
| Parma | 47 | 35 | 45 | 32 | 17 | .... | 1 | 18 | 12 00 | 10 50 | 9 00 | 17 | 13 | 8 |
| Paw Paw | 32 | 54 | 38 | 38 | 65 | 23 | .... | 88 | 13 00 | 13 00 | 10 00 | 18.5 | .... | .... |
| †Peck | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Pentwater | 22 | 47 | 41 | 36 | 9 | 5 | 2 | 16 | 9 00 | 6 00 | 3 00 | 18 | 14 | 10 |
| †Perrinton | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Perry | 14 | 34 | 30 | 26 | .... | .... | .... | 20 | 10 00 | .... | .... | 17.2 | .... | .... |
| Petersburg | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Pewamo | 31 | 38 | 45 | 38 | 6 | 4 | 2 | 12 | 9 00 | .... | .... | 17 | 13 | 9 |
| Pierson | .... | * 35 | 37 | 36 | 4 | .... | .... | 4 | 6 00 | .... | .... | 17 | .... | .... |
| Pigeon | 18 | 53 | 64 | 45 | 9 | 3 | .... | 12 | 10 00 | 8 10 | .... | 16 | .... | .... |
| Pinckney | 15 | 19 | 28 | 21 | 11 | 1 | 3 | 15 | 15 00 | 12 00 | 10 00 | 17.5 | .... | .... |
| Pinconning | 44 | 30 | 100 | 47 | 5 | .... | .... | 5 | 10 00 | .... | .... | 16 | .... | .... |
| Plainwell | 23 | 38 | 39 | 31 | 43 | 2 | .... | 45 | 15 00 | 12 00 | 9 00 | 18 | .... | .... |
| Plymouth | 25 | 47 | 44 | 39 | 31 | 8 | .... | 39 | 14 00 | 12 50 | 8 00 | 17.7 | 14 | 10.5 |
| Port Austin | 12 | 29 | 61 | 35 | 5 | 4 | 15 | 24 | 6 00 | 5 00 | 2 50 | 17 | .... | .... |
| Port Hope | 28 | 13 | 26 | 22 | 4 | 3 | 2 | 9 | 10 00 | 5 00 | 3 50 | 17 | 13 | 9 |
| Portland | 17 | 31 | 60 | 35 | 21 | 26 | .... | 47 | 15 20 | 11 40 | 11 40 | .... | .... | .... |
| Port Sanilac | 45 | 22 | 38 | 35 | 4 | .... | 2 | 6 | 7 20 | .... | .... | .... | .... | .... |
| Potterville | 36 | 43 | 32 | 36 | 8 | .... | .... | 8 | 9 00 | .... | .... | .... | .... | .... |
| Quincy | 25 | 43 | 37 | 33 | 31 | 1 | 1 | 33 | 14 00 | 10 00 | 7 50 | 18 | 11 | 8 |
| Reading | 29 | 35 | 44 | 35 | 47 | 9 | 3 | 59 | 14 25 | 14 25 | 11 75 | 18 | 15 | 10 |
| ¶Red Jacket | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Reed City | 19 | 31 | 38 | 30 | 15 | 5 | .... | 20 | 12 00 | 10 00 | 10 00 | 18.5 | .... | .... |
| †Reese | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Richland | 18 | 26 | 13 | 23 | 14 | 3 | .... | 17 | 14 40 | 9 00 | 9 00 | .... | .... | .... |
| Richmond | 13 | 43 | 37 | 32 | 23 | .... | .... | 23 | 13 50 | 11 25 | 9 00 | 17 | 13 | 11 |
| River Rouge | 7 | 28 | 39 | 32 | 1 | .... | .... | 1 | .... | 10 00 | 10 00 | 16 | 14 | 10 |
| Rochester | 26 | 46 | 46 | 39 | 19 | 5 | 3 | 27 | 13 00 | 10 00 | 8 00 | 17 | 13 | 9 |
| Rockford | 20 | 32 | 32 | 28 | 22 | 8 | 4 | 34 | 12 60 | 10 80 | 9 00 | 17 | 14 | 10 |
| Rogers | 15 | 30 | 42 | 34 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Romeo | 19 | 36 | 37 | 29 | 31 | 3 | 3 | 37 | 16 00 | 13 00 | 8 00 | 17 | 13.2 | 9 |
| Roscommon | 26 | 26 | 47 | 33 | .... | .... | .... | .... | .... | .... | .... | 15 | 13.5 | 10 |
| Royal Oak | 12 | 40 | 50 | 32 | 15 | 8 | 4 | 27 | 12 00 | 9 00 | 6 00 | 18 | 15 | 10 |
| St. Charles | 18 | 40 | 54 | 40 | 2 | 8 | .... | 10 | 10 00 | 10 00 | .... | 17.6 | .... | .... |
| †St. Clair Heights | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Saline | 16 | 35 | 31 | 25 | 18 | 8 | 4 | 30 | 16 00 | 13 00 | 10 00 | 17 | 13.3 | 9 |
| Sand Lake | 14 | 38 | 50 | 34 | 4 | 4 | .... | 8 | .... | .... | .... | .... | 13.4 | 8.6 |
| Saranac | 25 | 29 | 37 | 30 | 22 | 17 | 6 | 45 | 13 00 | 10 00 | 10 00 | 18.5 | 14 | 9 |
| Saugatuck | 30 | 25 | 38 | 31 | 12 | 1 | .... | 13 | 12 00 | 12 00 | 12 00 | 17 | .... | .... |
| Schoolcraft | 23 | 32 | 37 | 31 | 2 | 6 | 20 | 28 | 18 00 | 14 40 | 14 40 | 18 | 15 | 9 |
| Scottville | 31 | 35 | 52 | 38 | 27 | 6 | 5 | 38 | 11 25 | 11 25 | 11 25 | 18 | 14.9 | 10.9 |

---

* Includes high school and grammar department.
† Not legally graded.
¶ Report included with Calumet.

## TABLE XVIII.—Continued.

| Number of graduates. | Number of U. S. flags. | Has school kindergarten below primary grade? | Portion of time in first primary devoted to kindergarten work. | Number of grades in the school. | Number of pupils studying— | | | | Does school give special instruction in— | | | | | Has school a commercial course? | Is the compulsory attendance law enforced? | Has school an ungraded department? | Has school a day school for the deaf? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Latin. | Greek. | French. | German. | Vocal music? | Drawing? | Penmanship? | Manual training? | Domestic science? | | | | |
| 12 | 1 | Yes | ...... | 12 | 35 | .... | .... | 3 | Yes | No | No | No | No | No | Yes | No | No |
| .... | 1 | No | ...... | 8 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 7 | .... | No | ...... | 12 | 24 | .... | .... | 14 | Yes | No | No | No | No | No | Yes | No | No |
| 6 | 7 | No | ...... | 12 | 10 | .... | .... | 6 | No | No | No | No | No | Yes | Yes | No | No |
| 4 | 1 | No | 1-3 | 12 | 7 | .... | .... | 3 | No | No | No | No | No | No | No | No | No |
| 7 | 1 | No | 1-3 | 12 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 10 | 2 | Yes | 1-2 | 11 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | Yes | No |
| 6 | .... | No | ...... | 10 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 20 | 1 | Yes | 1-2 | 12 | 28 | .... | .... | 34 | Yes | Yes | No | No | No | Yes | Yes | No | No |
| .... | 1 | No | ...... | 10 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 12 | 1 | No | 1-5 | 12 | 40 | .... | .... | 25 | Yes | No | No | No | No | No | Yes | No | No |
| 7 | .... | No | ...... | 12 | ...... | .... | .... | ...... | Yes | Yes | Yes | No | No | No | Yes | No | No |
| 7 | 1 | No | ...... | 12 | ...... | .... | .... | ...... | Yes | Yes | Yes | No | No | No | Yes | No | No |
| 24 | .... | No | 1-3 | 12 | 31 | .... | .... | 30 | Yes | Yes | No | No | No | No | No | No | No |
| 2 | 1 | Yes | ...... | 12 | 21 | .... | .... | 10 | No | No | No | No | No | Yes | Yes | No | No |
| 5 | 1 | Yes | 1-2 | 12 | 12 | .... | .... | 15 | No | No | No | No | No | No | Yes | No | No |
| 4 | 1 | No | ...... | 11 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 1 | 1 | No | ...... | 10 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 7 | 1 | No | 1-8 | 11 | 6 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 8 | 1 | No | ...... | 12 | 5 | .... | .... | 14 | No | No | No | No | No | No | Yes | No | No |
| 32 | .... | No | 1-3 | 10 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 19 | 2 | Yes | 1-2 | 12 | 29 | .... | .... | 24 | Yes | No | No | No | No | Yes | No | No | No |
| 7 | 1 | Yes | ...... | 12 | 30 | .... | .... | 25 | No | Yes | Yes | No | No | No | Yes | No | No |
| 2 | 1 | No | ...... | 12 | 11 | .... | .... | 8 | No | No | No | No | No | No | Yes | No | No |
| 5 | 1 | No | 1-4 | 10 | ...... | .... | .... | ...... | No | No | No | No | No | Yes | Yes | No | No |
| 7 | 2 | No | 1-4 | 12 | 31 | .... | .... | 12 | No | No | No | No | No | No | Yes | No | No |
| .... | 1 | No | ...... | 11 | ...... | .... | .... | ...... | No | No | No | No | No | No | No | No | No |
| 8 | 1 | No | 1-3 | 10 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 17 | 1 | No | 1-4 | 12 | 5 | .... | .... | 21 | No | No | No | No | No | No | Yes | No | No |
| 26 | 1 | No | 1-5 | 12 | 18 | .... | .... | 24 | No | No | No | No | No | No | Yes | No | No |
| 8 | 3 | Yes | ...... | 12 | 58 | .... | .... | 8 | Yes | Yes | Yes | No | No | No | Yes | No | No |
| 3 | 1 | No | ...... | 12 | 4 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 7 | 2 | No | 1-10 | 12 | 18 | .... | .... | ...... | No | No | No | No | No | Yes | Yes | No | No |
| 8 | 2 | Yes | ...... | 10 | 12 | .... | .... | ...... | Yes | Yes | Yes | No | No | No | Yes | No | No |
| 1 | 1 | No | 1-2 | 12 | 7 | .... | .... | 1 | No | No | No | No | No | No | Yes | No | No |
| 4 | 1 | No | 1-5 | 12 | 32 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 6 | .... | No | 1-2 | 10 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 15 | 3 | No | 1-2 | 12 | 18 | .... | .... | 30 | No | Yes | No | No | No | Yes | Yes | No | No |
| .... | .... | No | 1-3 | 10 | ...... | .... | .... | ...... | No | No | No | No | No | No | No | No | No |
| 7 | 1 | No | ...... | 12 | 13 | .... | .... | 9 | No | No | No | No | No | No | Yes | No | No |
| 6 | 1 | Yes | ...... | 12 | 10 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 9 | .... | No | 1-5 | 12 | 24 | .... | .... | 22 | No | No | No | No | No | No | Yes | No | No |
| .... | 1 | No | 1-3 | 11 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 7 | 1 | No | 1-6 | 12 | 11 | .... | .... | ...... | No | No | No | No | No | Yes | Yes | No | No |
| 19 | 2 | No | ...... | 11 | 8 | .... | .... | 36 | No | No | No | No | No | No | Yes | No | No |
| 7 | 1 | No | 1-3 | 12 | 26 | .... | .... | 16 | No | No | No | No | No | No | Yes | No | No |
| 4 | 1 | No | 1-2 | 12 | 28 | .... | .... | 12 | Yes | Yes | Yes | No | No | No | Yes | No | No |

## TABLE XVIII.—Concluded.

| Incorporated villages. | Average number pupils to each teacher. | | | | Number of non-resident pupils. | | | | Rate of tuition per year. | | | Average age of class. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | High school department. | Grammar department. | Primary department. | Whole school. | High school department. | Grammar department. | Primary department. | Whole school. | High school department. | Grammar department. | Primary department. | Graduated. | Promoted to high school. | Promoted to grammar department. |
| Sebewaing | 28 | 46 | 36 | 38 | .... | 3 | .... | 3 | ........ | ........ | ........ | ..... | 14 | 10 |
| Shelby | 28 | 30 | 47 | 34 | 30 | 1 | 1 | 32 | $12 00 | $12 00 | $12 00 | 18 | 15 | 11 |
| Shepherd | 34 | 28 | 37 | 34 | 22 | .... | .... | .... | 11 25 | ........ | ........ | ..... | ..... | ..... |
| Sheridan | 26 | 23 | 41 | 28 | 19 | 6 | 4 | 29 | 9 00 | 6 75 | 4 50 | 17 | ..... | ..... |
| Sherman | 28 | 24 | 54 | 37 | 4 | 1 | 2 | 7 | ........ | ........ | ........ | 17 | 14 | 8 |
| Sherwood | 14 | 33 | 30 | 29 | .... | .... | .... | .... | | | ........ | 17 | ..... | ..... |
| †Sibley | .... | .... | .... | .... | .... | .... | .... | .... | ........ | ........ | ........ | ..... | ..... | ..... |
| South Frankfort | 28 | 43 | 68 | 45 | 4 | 2 | .... | 6 | 10 00 | 7 50 | 7 50 | 15 | 12 | 8 |
| South Lyon | 23 | 36 | 40 | 32 | .... | .... | .... | .... | 12 00 | 12 00 | 8 00 | 17.1 | 15.4 | 11.5 |
| Sparta | 29 | 36 | 37 | 35 | 12 | 3 | 1 | 16 | 20 00 | 12 00 | 12 00 | ..... | ..... | ..... |
| Spring Lake | 11 | 32 | 37 | 30 | .... | .... | 2 | 2 | ........ | ........ | 4 66 | 16 | 14 | 10 |
| Springport | 21 | 20 | 24 | 22 | 21 | 2 | 1 | 24 | 10 00 | ........ | ........ | 17.5 | 14 | 10.2 |
| Stambaugh | 13 | 26 | 28 | 25 | .... | 2 | 2 | 4 | 6 75 | 6 75 | 6 75 | ..... | 14 | 11 |
| †Stephenson | .... | .... | .... | .... | .... | .... | .... | .... | ........ | ........ | ........ | ..... | ..... | ..... |
| Stevensville | 10 | 54 | 40 | 31 | 8 | 3 | .... | 11 | 11 25 | 6 75 | ........ | 18 | 15 | 11.8 |
| Stockbridge | 31 | 47 | 41 | 39 | 26 | 6 | 4 | 36 | 12 50 | 10 00 | 7 50 | 18 | 14 | 10 |
| Sunfield | 21 | 41 | 47 | 32 | 21 | 2 | .... | 23 | 9 50 | 9 50 | 9 50 | 20 | 13.3 | 8 |
| Sutton's Bay | 21 | 27 | 27 | 25 | 6 | 4 | 4 | 14 | 9 00 | 4 50 | 4 50 | ..... | ..... | ..... |
| Tecumseh | 30 | 39 | 39 | 34 | 48 | 13 | 1 | 62 | 16 67 | 13 33 | 11 67 | 18 | 13 | 9 |
| Tekonsha | 17 | 29 | 39 | 29 | 26 | .... | .... | 26 | 12 00 | 10 50 | 6 00 | 18 | 13 | 8.5 |
| Thompsonville | 15 | 32 | 40 | 30 | 4 | .... | .... | 4 | ........ | ........ | ........ | ..... | 15 | 11 |
| Three Oaks | 29 | 42 | 47 | 40 | 13 | 4 | .... | 17 | 13 50 | 12 25 | ........ | 17 | 11 | 7 |
| Trenton | 10 | 42 | 48 | 41 | 1 | 4 | 1 | 6 | 10 00 | 8 00 | 6 00 | 18 | 15 | 10 |
| Tustin | 21 | 30 | 37 | 29 | 6 | 1 | .... | 7 | 9 00 | ........ | ........ | ..... | 14 | ..... |
| Twining | 27 | 50 | 80 | 52 | .... | .... | .... | .... | 6 00 | 4 00 | 2 80 | ..... | ..... | ..... |
| †Ubly | .... | .... | .... | .... | .... | .... | .... | .... | ........ | ........ | ........ | ..... | ..... | ..... |
| Union City | 22 | 36 | 26 | 26 | 31 | 9 | 5 | 45 | 15 00 | 12 00 | 9 00 | 18 | 16 | 11 |
| Unionville | 20 | 46 | 74 | 42 | 14 | 3 | .... | 17 | 8 00 | ........ | ........ | 17 | 13 | 8 |
| Utica | 15 | 45 | 33 | 28 | 11 | .... | .... | 11 | 13 00 | 13 00 | 13 00 | 19 | 14.7 | 9.8 |
| Vandalia | 26 | 32 | 34 | 29 | 15 | .... | .... | 15 | 9 00 | ........ | ........ | 18 | ..... | ..... |
| †Vanderbilt | .... | .... | .... | .... | .... | .... | .... | .... | ........ | ........ | ........ | ..... | ..... | ..... |
| Vassar | 25 | 29 | 30 | 29 | 30 | 6 | 2 | 38 | 12 00 | 10 00 | 8 00 | 17 | 13 | 9 |
| Vermontville | 23 | 25 | 29 | 24 | 38 | 1 | 1 | 40 | 13 30 | 9 50 | ........ | 18 | 14 | 10 |
| Vernon | 25 | 14 | 32 | 22 | .... | .... | .... | .... | 12 00 | 9 00 | 9 00 | 16 | 14 | 10 |
| Vicksburg | 22 | 38 | 28 | 27 | 46 | .... | .... | 46 | 16 00 | 14 00 | 12 00 | 18 | 14 | 10.5 |
| Wakefield | 9 | 38 | 35 | 33 | .... | .... | .... | .... | ........ | ........ | ........ | 16 | 15 | 10 |
| Waldron | 25 | 32 | 38 | 32 | .... | .... | .... | 8 | 11 25 | ........ | ........ | ..... | ..... | ..... |
| Warren | .... | 28 | 40 | 34 | .... | 6 | .... | 6 | 9 00 | ........ | ........ | ..... | ..... | ..... |
| Watervliet | 28 | 33 | 39 | 33 | 14 | 7 | 9 | 30 | 11 25 | 9 00 | 6 75 | 17 | ..... | ... |
| Wayland | 40 | 36 | 70 | 45 | 58 | 2 | 3 | 63 | 11 00 | 9 00 | 7 00 | 19 | ..... | .... |
| Wayne | 25 | 38 | 43 | 34 | 31 | 6 | 1 | 38 | 14 00 | 10 00 | 8 00 | 18.2 | 14.4 | 10 |
| Webberville | 32 | 36 | 36 | 35 | 7 | .... | .... | 7 | 9 00 | 9 00 | 9 00 | 16 | 14 | 10 |
| †Westphalia | .... | .... | .... | .... | .... | .... | .... | .... | ........ | ........ | ........ | ..... | ..... | ... |
| White Cloud | .... | .... | .... | .... | 12 | .... | .... | 12 | 9 00 | ........ | ........ | 17 | ..... | .... |
| Whitehall | 40 | 34 | 33 | 35 | 13 | 3 | 3 | 19 | 9 50 | 9 50 | 9 50 | 18 | 12.5 | ..... |
| White Pigeon | 23 | 31 | 30 | 26 | 42 | 3 | 5 | 50 | 15 00 | 12 00 | 9 00 | 18 | 13 | 8.9 |
| Williamston | 24 | 22 | 40 | 28 | 40 | 8 | 2 | 50 | 14 00 | 10 00 | 8 00 | 17 | 13 | .... |
| Wolverine | 23 | 25 | 37 | 25 | 11 | 6 | 4 | 21 | ........ | ........ | ........ | 17 | 12 | 6 |
| Woodland | 28 | 14 | 39 | 27 | 21 | 1 | 1 | 23 | 10 80 | 10 80 | 7 20 | 16 | 13 | 11 |
| †Woodmere | .... | .... | .... | .... | .... | .... | .... | .... | ........ | ........ | ........ | ..... | ..... | ..... |
| Zeeland | 19 | 38 | 50 | 22 | 2 | 1 | 2 | 5 | ........ | ........ | ........ | 17 | ..... | ..... |

† Not legally graded.

## TABLE XVIII.—CONCLUDED.

| Number of graduates. | Number of U. S. flags. | Has school kindergarten below primary grade? | Portion of time in first primary devoted to kindergarten work. | Number of grades in the school. | Number of pupils studying— | | | | Does school give special instruction in— | | | | | Has school a commercial course? | Is the compulsory attendance law enforced? | Has school an ungraded department? | Has school a day school for the deaf? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Latin. | Greek. | French. | German. | Vocal music? | Drawing? | Penmanship? | Manual training? | Domestic science? | | | | |
| .... | 1 | No | ...... | 11 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 16 | 1 | Yes | ...... | 12 | 44 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| .... | 1 | Yes | ...... | 11 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 4 | 1 | No | ...... | 12 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 4 | 1 | No | 1-4 | 11 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 2 | 1 | No | 1-3 | 12 | 2 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| .... | 1 | No | ...... | 12 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 8 | 1 | No | 1-3 | 12 | 25 | .... | .... | ...... | No | No | No | No | No | Yes | Yes | No | No |
| .... | 1 | No | 1-2 | 12 | 8 | .... | .... | 10 | Yes | Yes | Yes | No | No | No | Yes | No | No |
| 4 | 1 | No | 1-3 | 10 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 5 | 1 | No | 1-3 | 12 | 6 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| .... | 2 | Yes | ...... | 12 | 20 | .... | .... | ...... | No | No | No | No | No | Yes | Yes | No | No |
| 3 | 1 | Yes | ...... | 12 | 8 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 8 | 1 | Yes | ...... | 12 | ...... | .... | .... | ...... | No | No | No | No | No | Yes | Yes | No | No |
| 2 | 1 | No | 1-4 | 12 | 3 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 1 | 1 | No | 1-2 | 12 | 11 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 17 | 2 | No | 1-4 | 12 | 74 | .... | .... | 32 | Yes | Yes | Yes | No | No | No | Yes | No | No |
| 2 | .... | No | ...... | 12 | 30 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| .... | 1 | No | 1-10 | 12 | 4 | .... | .... | ...... | No | No | No | No | No | No | No | No | No |
| 8 | 2 | No | 1-4 | 12 | 15 | .... | .... | 18 | Yes | No | No | No | No | No | Yes | No | No |
| 2 | 1 | Yes | 1-2 | 12 | 7 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| .... | 1 | No | 2-5 | 12 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 2 | 1 | No | ...... | 10 | ...... | .... | .... | ...... | No | No | No | No | No | Yes | Yes | No | No |
| 8 | 1 | Yes | ...... | 13 | 40 | .... | 1 | 12 | No | No | No | No | No | No | No | No | No |
| 2 | 1 | No | 1-2 | 12 | ...... | .... | .... | ...... | No | No | Yes | No | No | Yes | Yes | No | No |
| 3 | 1 | No | ...... | 12 | 16 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 4 | 1 | No | ...... | 12 | 4 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 11 | 3 | No | 1-4 | 12 | 32 | .... | .... | 17 | Yes | Yes | Yes | Yes | No | Yes | Yes | No | No |
| 6 | 1 | Yes | 1-2 | 12 | 35 | .... | .... | 13 | No | No | No | No | No | No | Yes | No | No |
| 1 | 1 | No | 1-4 | 12 | 2 | .... | .... | ...... | No | No | No | No | No | No | No | No | No |
| 20 | .... | Yes | ...... | 12 | 37 | .... | .... | 28 | No | No | No | No | No | No | Yes | No | No |
| 3 | .... | Yes | ...... | 10 | ...... | .... | .... | ...... | No | No | No | No | No | Yes | Yes | No | No |
| .... | 1 | No | 1-2 | 10 | ...... | .... | .... | ...... | No | No | No | No | No | Yes | Yes | No | No |
| .... | 1 | No | ...... | 9 | 2 | .... | .... | ...... | No | No | No | No | No | Yes | Yes | No | No |
| 4 | 1 | No | 1-5 | 12 | 9 | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 4 | 1 | No | ...... | 12 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 6 | 1 | No | ...... | 12 | 34 | .... | .... | 16 | No | No | No | No | No | No | Yes | No | No |
| .... | .... | No | 1-2 | 10 | ...... | .... | .... | ...... | No | No | No | No | No | Yes | Yes | No | No |
| 2 | 1 | No | 3-4 | 12 | ...... | .... | .... | ...... | No | No | No | No | No | Yes | Yes | No | No |
| 10 | 1 | No | 1-3 | 12 | 16 | .... | .... | ...... | Yes | No | No | No | No | No | Yes | No | No |
| 8 | 1 | Yes | 1-4 | 12 | 21 | .... | .... | 14 | No | No | No | No | No | No | Yes | No | No |
| 6 | 1 | No | 1-2 | 12 | 32 | .... | .... | 26 | Yes | No | Yes | No | No | No | Yes | No | No |
| 2 | 1 | Yes | 2-5 | 12 | 16 | .... | .... | 13 | No | No | No | No | No | No | Yes | No | No |
| 8 | 1 | No | 1-10 | 10 | ...... | .... | .... | ...... | No | No | No | No | No | No | Yes | No | No |
| 3 | 1 | Yes | 1-2 | 11 | 25 | .... | .... | ...... | Yes | Yes | Yes | No | No | Yes | Yes | No | No |

## TABLE XIX.

*Financial statistics of city and graded village schools as reported by superintendents for the year 1905-1906.*

| Incorporated cities. | Amount paid superintendent. | Amount paid regular teachers. | Amount paid special teachers. | Total amount paid for instruction. | Cost of education per capita in— | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | High school. | | | Grammar department. | | | Primary department. | | | Whole school. | | |
| | | | | | Instruction. | Incidentals. | Total. | Instruction. | Incidentals. | Total. | Instruction. | Incidentals. | Total. | Instruction. | Incidentals. | Total. |
| Adrian | $1,750 00 | $20,976 00 | $3,200 00 | $25,926 00 | $27 03 | $11 10 | $38 13 | $17 58 | $11 10 | $28 68. | $12 76 | $11 10 | $23 86 | $16 87 | $11 10 | $27 97 |
| Albion | 1,600 00 | 12,313 00 | 990 00 | 14,903 00 | 28 17 | 7 20 | 35 47 | 13 46 | 7 30 | 20 76 | 11 85 | 7 30 | 19 15 | 15 85 | 7 30 | 23 15 |
| Alma | 1,200 00 | 6,672 25 | 450 00 | 8,322 25 | 33 56 | 18 18 | 51 74 | 8 96 | 18 18 | 27 14 | 15 07 | 18 18 | 23 25 | 15 73 | 18 18 | 23 91 |
| Alpena | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Ann Arbor | 4,300 00 | 40,456 41 | 3,300 00 | 48,056 41 | 38 90 | 8 23 | 47 13 | ‡ 16 19 | ‡ 8 23 | ‡ 24 42 | ...... | ...... | ...... | 21 61 | 8 23 | 29 84 |
| †Au Gres | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Au Sable | 700 00 | 2,727 50 | ...... | 3,427 50 | 20 35 | 4 90 | 25 25 | 8 42 | 4 90 | 13 32 | 7 55 | 4 90 | 12 45 | 9 82 | 4 90 | 14 72 |
| Bad Axe | 550 00 | 3,850 00 | ...... | 4,400 00 | 17 59 | 1 37 | 18 96 | 9 97 | 1 37 | 11 34 | 11 06 | 1 37 | 12 43 | 12 08 | 1 37 | 13 45 |
| Battle Creek | 2,300 00 | 50,311 89 | 4,400 00 | 57,011 89 | 34 10 | 11 58 | 45 68 | 18 23 | 11 58 | 29 81 | 12 69 | 11 58 | 24 27 | 16 87 | 11 58 | 28 45 |
| Bay City | 2,400 00 | 91,526 09 | 3,608 00 | 97,534 09 | 38 26 | 7 60 | 45 86 | 15 61 | 7 60 | 23 21 | 15 20 | 7 60 | 22 80 | 16 63 | 7 60 | 24 23 |
| Beaverton | 650 00 | 2,350 00 | ...... | 3,000 00 | 31 66 | 1 23 | 32 89 | 14 05 | 1 23 | 15 28 | 10 40 | 1 23 | 11 63 | 14 85 | 1 23 | 16 08 |
| Belding | 1,200 00 | 7,675 00 | 675 00 | 9,550 50 | 40 70 | 4 54 | 45 24 | 13 53 | 4 54 | 18 07 | 11 10 | 4 54 | 15 64 | 15 73 | 4 54 | 20 27 |
| Benton Harbor | 1,600 00 | 15,270 50 | 500 00 | 17,370 50 | 22 43 | 6 30 | 28 73 | 12 20 | 6 30 | 18 50 | 12 00 | 6 30 | 18 30 | 13 80 | 6 30 | 20 10 |
| Bessemer | 1,500 00 | 13,700 00 | 600 00 | 15,800 00 | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | 16 14 | 6 93 | 23 07 |
| Big Rapids | 1,225 00 | 11,530 14 | 450 00 | 13,205 14 | 34 80 | 7 32 | 42 12 | 12 32 | 7 32 | 19 64 | 14 07 | 7 32 | 21 39 | 17 02 | 7 32 | 24 34 |
| Cadillac | 1,800 00 | 18,090 79 | 500 00 | 20,390 79 | 34 57 | 4 26 | 38 83 | 14 40 | 4 26 | 18 66 | 7 50 | 4 26 | 11 76 | 12 59 | 4 26 | 16 85 |
| Charlevoix | 1,000 00 | 7,116 19 | 135 00 | 8,251 19 | 32 00 | 5 34 | 37 34 | 12 40 | 5 34 | 17 74 | 10 67 | 5 34 | 16 01 | 14 58 | 5 34 | 19 92 |
| Charlotte | 1,500 00 | 12,171 12 | ...... | 13,671 62 | 25 71 | 8 30 | 34 01 | 13 70 | 8 30 | 22 00 | 16 35 | 8 30 | 24 65 | 17 58 | 8 30 | 25 88 |
| Cheboygan | 1,140 00 | 11,526 87 | 600 00 | 13,266 87 | 27 19 | 7 65 | 34 84 | 13 33 | 7 65 | 20 98 | 9 29 | 7 65 | 16 94 | 12 35 | 7 65 | 20 00 |
| Clare | 800 00 | 3,625 00 | ...... | 4,425 00 | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | 12 15 | 3 73 | 15 88 |
| Coldwater | 1,400 00 | 16,055 12 | 980 00 | 18,435 12 | 27 34 | 7 44 | 34 78 | 21 48 | 7 44 | 28 92 | 13 97 | 7 44 | 21 41 | 18 28 | 7 44 | 25 72 |
| Coleman | 750 00 | 2,735 25 | ...... | 3,485 25 | 35 12 | 2 28 | 37 40 | 7 05 | 2 28 | 9 33 | 6 47 | 2 28 | 8 75 | 10 28 | 2 28 | 12 56 |
| Corunna | 1,200 00 | 4,325 00 | 280 00 | 5,805 00 | 31 11 | 9 09 | 40 20 | 10 61 | 9 09 | 19 70 | 13 55 | 9 09 | 22 64 | 17 37 | 9 09 | 26 46 |
| Croswell | 850 00 | 2,600 00 | ...... | 3,450 00 | 26 30 | 6 62 | 29 92 | 11 50 | 6 62 | 18 12 | 8 40 | 6 62 | 15 02 | 12 27 | 6 62 | 18 89 |
| Crystal Falls | 1,600 00 | 11,738 00 | 650 00 | 13,988 00 | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | 16 08 | 13 86 | 29 94 |
| Detroit | 4,000 00 | 823,872 34 | 9,300 00 | 837,172 34 | 50 20 | 7 43 | 57 58 | 24 59 | 7 43 | 31 97 | 24 56 | 7 43 | 31 94 | 23 52 | 7 43 | 30 75 |
| Dowagiac | 1,500 00 | 10,656 75 | 500 00 | 12,686 75 | 27 54 | 14 14 | 41 68 | 13 61 | 14 14 | 27 75 | 10 06 | 14 14 | 24 20 | 13 60 | 14 14 | 27 74 |
| East Tawas | 700 00 | 2,970 00 | 360 00 | 4,030 00 | 39 20 | 2 60 | 41 80 | 9 17 | 2 60 | 11 77 | 9 38 | 2 60 | 11 98 | 10 50 | 2 60 | 13 10 |
| Eaton Rapids | 1,100 00 | 4,910 00 | 850 00 | 6,860 00 | 25 16 | 7 43 | 31 59 | 18 02 | 7 43 | 25 45 | 16 50 | 7 43 | 23 93 | 19 77 | 7 43 | 27 20 |
| Escanaba | 2,200 00 | 29,028 87 | 1,600 00 | 32,828 87 | 34 53 | 6 57 | 41 10 | 14 70 | 6 57 | 21 27 | 15 20 | 6 57 | 21 77 | 17 43 | 6 57 | 24 00 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Flint | 1,700 00 | 35,629 65 | 1,350 00 | 38,679 65 | 63 40 | 14 06 | 77 46 | 16 30 | 14 06 | 30 36 | 10 77 | 14 06 | 24 83 | 15 90 | 14 06 | 29 96 |
| Gladstone | 1,200 00 | 8,225 00 | ...... | 9,425 00 | 29 19 | 2 78 | 31 97 | 14 14 | 2 78 | 16 92 | 9 80 | 2 78 | 12 58 | 13 20 | 2 78 | 15 98 |
| Gladwin | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Grand Haven | 1,500 00 | 11,372 00 | 450 00 | 13,322 00 | 22 61 | 7 47 | 30 08 | 12 90 | 7 47 | 20 37 | 10 90 | 4 47 | 18 37 | 13 21 | 7 47 | 20 68 |
| Grand Ledge, 9 fr. | 900 00 | 3,650 00 | 200 00 | 4,750 00 | 34 56 | 7 51 | 42 07 | 12 63 | 7 51 | 20 14 | 12 62 | 7 51 | 20 13 | 18 41 | 7 51 | 25 92 |
| Grand Ledge, 11 fr. | 700 00 | 2,300 00 | 112 50 | 3,112 50 | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | 12 67 | 3 90 | 16 57 |
| Grand Rapids | 3,500 00 | 294,415 00 | 6,300 00 | 304,215 00 | 36 26 | 11 77 | 48 03 | 25 63 | 11 77 | 37 40 | 19 70 | 11 77 | 31 53 | 23 31 | 11 77 | 35 08 |
| Greenville | 1,200 00 | 8,500 00 | 550 00 | 10,250 00 | 24 02 | 2 19 | 26 21 | 12 37 | 2 19 | 14 56 | 11 25 | 2 19 | 13 44 | 14 35 | 2 19 | 16 54 |
| Hancock | 1,800 00 | 14,316 25 | ...... | 16,116 25 | 47 24 | 7 57 | 54 81 | 12 63 | 7 57 | 20 20 | 10 39 | 7 57 | 17 96 | 15 13 | 7 57 | 22 70 |
| Harrison | 575 00 | 1,035 00 | ...... | 1,610 00 | 19 83 | 3 11 | 22 94 | 17 76 | 3 11 | 20 87 | 4 44 | 3 11 | 7 55 | 10 88 | 3 11 | 13 99 |
| Harrisville | 540 00 | 1,098 00 | ...... | 1,638 00 | 21 81 | 2 72 | 24 53 | 8 16 | 2 72 | 10 88 | 10 00 | 2 72 | 12 72 | 11 14 | 2 72 | 13 86 |
| Hastings | 1,114 39 | 9,923 58 | 1,100 00 | 12,136 87 | 32 00 | 18 34 | 50 34 | 13 60 | 18 34 | 31 94 | 13 61 | 18 34 | 31 95 | 17 56 | 18 34 | 35 90 |
| Hillsdale | 1,400 00 | 10,800 00 | 1,640 00 | 13,840 00 | 23 84 | 7 81 | 31 65 | 14 30 | 7 81 | 22 11 | 13 66 | 7 81 | 22 47 | 16 53 | 7 81 | 24 34 |
| Holland | 1,500 00 | 17,202 14 | 900 00 | 19,662 14 | 42 39 | 8 00 | 50 39 | 14 22 | 8 00 | 22 22 | 8 08 | 8 00 | 16 08 | 12 62 | 8 00 | 20 62 |
| Hudson | 1,250 00 | 5,500 00 | ...... | 7,750 00 | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | 16 55 | 8 93 | 25 48 |
| Ionia | 1,400 00 | 11,995 00 | 1,319 26 | 14,714 26 | 27 58 | 6 23 | 33 81 | 30 82 | 6 23 | 37 05 | 13 85 | 6 23 | 20 08 | 20 16 | 6 23 | 26 39 |
| Iron Mountain | 2,500 00 | 33,544 78 | 3,135 00 | 39,179 78 | 33 56 | 4 47 | 38 03 | 20 85 | 4 47 | 26 30 | 13 31 | 4 47 | 17 78 | 16 83 | 4 47 | 21 30 |
| Ironwood | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Ishpeming | 2,600 00 | 36,575 00 | 4,399 00 | 43,574 00 | 35 60 | 1 63 | 37 23 | 10 05 | 1 63 | 11 68 | 12 40 | 1 63 | 14 03 | 13 94 | 1 63 | 15 57 |
| Jackson | 2,500 00 | 54,825 00 | 1,700 00 | 59,025 00 | 37 40 | 8 56 | 45 96 | 16 78 | 8 56 | 25 34 | 14 66 | 8 56 | 23 22 | 17 63 | 8 56 | 26 19 |
| Kalamazoo | 2,400 00 | 69,655 06 | 6,700 00 | 78,755 06 | 44 11 | 8 40 | 52 51 | 16 10 | 8 40 | 24 50 | 12 48 | 8 40 | 20 88 | 17 08 | 8 40 | 25 48 |
| Lansing | 2,000 00 | 45,299 00 | 1,800 00 | 49,099 00 | 36 35 | 8 02 | 44 37 | 16 44 | 8 02 | 24 46 | 13 49 | 8 02 | 21 51 | 17 39 | 8 02 | 25 41 |
| Lapeer | 1,200 00 | 7,950 00 | 600 00 | 9,750 00 | 30 69 | 2 77 | 33 46 | 17 11 | 2 77 | 19 88 | 11 52 | 2 77 | 14 29 | 20 44 | 2 77 | 23 21 |
| Ludington | 1,850 00 | 19,071 13 | 1,512 50 | 22,433 63 | 22 51 | 5 22 | 27 73 | 17 58 | 5 22 | 22 80 | 13 62 | 5 22 | 18 84 | 15 82 | 5 22 | 21 04 |
| Mackinac Island | 778 00 | 1,227 00 | ...... | 2,005 00 | 29 20 | 5 12 | 34 32 | 8 67 | 5 12 | 13 79 | 8 18 | 5 12 | 13 30 | 15 42 | 5 12 | 20 54 |
| Manistee | 1,900 00 | 34,139 92 | 1,300 00 | 37,339 92 | 39 89 | 7 20 | 47 09 | 14 79 | 7 20 | 21 99 | 14 87 | 7 20 | 22 07 | 17 70 | 7 20 | 24 90 |
| Manistique | 1,500 00 | 15,196 25 | ...... | 16,696 25 | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | 18 64 | 11 45 | 30 09 |
| Marine City | 1,100 00 | 6,740 00 | 400 00 | 8,240 00 | 29 50 | 5 76 | 35 26 | 11 07 | 5 76 | 16 83 | 10 78 | 5 76 | 16 54 | 13 36 | 5 76 | 19 12 |
| Marquette | 1,900 00 | 32,417 50 | ...... | 34,317 50 | 58 59 | 8 46 | 67 05 | 15 73 | 8 46 | 24 19 | 17 51 | 8 46 | 25 97 | 20 66 | 8 46 | 29 12 |
| Marshall | 1,200 00 | 10,882 50 | 950 00 | 13,032 50 | 30 19 | 1 34 | 31 53 | 17 43 | 1 34 | 18 77 | 14 26 | 1 34 | 15 60 | 19 51 | 1 34 | 20 85 |
| Mason | 1,200 00 | 4,475 00 | 400 00 | 6,075 00 | 27 16 | 1 26 | 28 42 | 12 42 | 1 26 | 13 68 | 14 28 | 1 26 | 15 54 | 17 21 | 1 26 | 18 47 |
| Menominee | 2,000 00 | 28,859 26 | 1,912 26 | 32,771 52 | 40 29 | 9 24 | 49 53 | 12 24 | 9 24 | 21 48 | 13 17 | 9 24 | 22 41 | 15 06 | 9 24 | 24 30 |
| Midland | 1,100 00 | 6,415 63 | ...... | 7,515 63 | 21 29 | 3 42 | 24 71 | 12 17 | 3 42 | 15 59 | 10 50 | 3 42 | 13 92 | 12 89 | 3 42 | 16 31 |
| Monroe | 1,300 00 | 8,764 75 | 950 00 | 11,014 75 | 41 33 | 5 48 | 46 81 | 12 48 | 5 48 | 17 96 | 11 24 | 5 48 | 16 72 | 16 56 | 5 48 | 22 04 |
| Mt. Clemens | 1,500 00 | 14,308 18 | 500 00 | 16,308 18 | 49 55 | 7 60 | 57 15 | 17 05 | 7 60 | 24 65 | 9 45 | 7 60 | 17 05 | 16 24 | 7 60 | 23 84 |
| Mt. Pleasant | 1,300 00 | 6,529 50 | 550 00 | 9,354 50 | 25 31 | 13 40 | 38 71 | 21 87 | 13 40 | 35 27 | 17 91 | 13 40 | 31 31 | 22 01 | 13 40 | 35 41 |
| Muskegon | 2,500 00 | 54,150 78 | 2,720 00 | 59,370 78 | 32 63 | 8 38 | 41 01 | 16 18 | 8 38 | 24 56 | 13 24 | 8 38 | 21 62 | 16 96 | 8 38 | 25 34 |
| Muskegon Heights | 900 00 | 2,525 00 | ...... | 3,425 00 | 37 50 | 6 09 | 43 59 | 19 45 | 6 09 | 25 54 | 14 32 | 6 09 | 20 41 | 17 65 | 6 09 | 23 74 |
| Negaunee | 1,800 00 | 18,786 25 | 900 00 | 21,486 25 | 42 08 | 5 80 | 47 88 | 12 74 | 5 80 | 18 54 | 15 97 | 5 80 | 21 77 | 17 77 | 5 80 | 23 57 |
| Niles | 1,600 00 | 10,594 00 | ...... | 12,194 00 | 28 44 | 89 | 29 33 | 10 45 | 89 | 11 34 | 9 40 | 89 | 10 29 | 12 94 | 89 | 13 83 |
| North Muskegon | 300 00 | 299 00 | ...... | 650 00 | ...... | ...... | ...... | 9 00 | 3 86 | 12 86 | 6 95 | 3 86 | 10 81 | 7 70 | 3 86 | 11 56 |
| Norway | 2,500 00 | 10,818 40 | 950 00 | 14,268 40 | 37 67 | 27 65 | 65 32 | 14 81 | 27 65 | 42 46 | 13 78 | 27 65 | 41 43 | 16 16 | 27 65 | 43 81 |
| Omer | 600 00 | 1,100 00 | ...... | 1,700 00 | 17 65 | 5 87 | 23 52 | 9 38 | 5 87 | 15 25 | 6 48 | 5 87 | 12 35 | 10 12 | 5 87 | 15 99 |
| Onaway | 1,000 00 | 4,750 00 | ...... | 5,750 00 | 68 38 | 10 02 | 78 40 | 14 76 | 10 02 | 24 78 | 9 03 | 10 02 | 19 05 | 14 27 | 10 02 | 24 29 |

---

‡ Includes grammar and primary department.

† Not legally graded.

## TABLE XIX.—Continued.

| Incorporated cities. | Amount paid superintendent. | Amount paid regular teachers. | Amount paid special teachers. | Total amount paid for instruction. | Cost of education per capita in— | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | High school. | | | Grammar department. | | | Primary department. | | | Whole school. | | |
| | | | | | Instruction. | Incidentals. | Total. | Instruction. | Incidentals. | Total. | Instruction. | Incidentals. | Total. | Instruction. | Incidentals. | Total. |
| Owosso | $1,800 00 | $23,192 83 | $1,060 00 | $26,052 83 | $39 26 | $17 38 | $56 64 | $16 21 | $17 38 | $33 59 | $13 74 | $17 38 | $31 12 | $17 52 | $17 38 | $34 90 |
| Petoskey | 1,200 00 | 14,253 58 | 555 00 | 16,008 58 | 40 21 | 24 26 | 64 47 | 14 90 | 24 26 | 39 16 | 14 00 | 24 26 | 39 16 | 17 91 | 24 26 | 42 17 |
| Pontiac | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ |
| Port Huron | 1,900 00 | 38,108 38 | 600 00 | 40,708 38 | 28 23 | 8 29 | 36 52 | 16 72 | 8 29 | 25 01 | 12 04 | 8 29 | 20 33 | 14 19 | 8 29 | 22 48 |
| Rose City | 570 00 | 1,330 00 | ........ | 1,900 00 | 18 40 | 2 48 | 20 88 | 10 07 | 2 48 | 12 55 | 6 10 | 2 48 | 8 58 | 6 45 | 2 48 | 8 93 |
| Saginaw | 2,500 00 | 87,644 11 | 2,196 25 | 92,340 36 | 47 12 | 11 25 | 58 37 | 22 16 | 11 25 | 33 41 | 14 29 | 11 25 | 25 54 | 22 25 | 11 25 | 33 50 |
| Saginaw, W. S. | 1,850 00 | 38,516 30 | 3,100 00 | 43,466 30 | 41 53 | 18 75 | 60 28 | 16 73 | 18 75 | 35 48 | 12 33 | 18 75 | 31 68 | 17 09 | 18 75 | 35 84 |
| St. Clair | 1,200 00 | 5,620 00 | 450 00 | 7,270 00 | 26 42 | 8 63 | 35 05 | 12 47 | 8 63 | 21 10 | 10 72 | 8 63 | 19 35 | 13 61 | 8 63 | 22 24 |
| St. Ignace | 900 00 | 4,260 00 | ........ | 5,160 00 | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | 13 37 | 5 98 | 19 35 |
| St. Johns | 928 57 | 10,276 43 | 457 50 | 11,662 50 | 33 30 | 7 57 | 40 87 | 14 64 | 7 57 | 22 21 | 11 27 | 7 57 | 18 84 | 15 86 | 7 57 | 23 43 |
| St. Joseph | 1,650 00 | 14,296 60 | 949 00 | 16,895 60 | 36 20 | 6 55 | 42 75 | 12 40 | 6 55 | 18 95 | 16 58 | 6 55 | 23 13 | 17 65 | 6 55 | 24 20 |
| St. Louis | 1,100 00 | 6,525 00 | 500 00 | 8,125 00 | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | 15 84 | 10 72 | 26 56 |
| Sandusky | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ |
| Sault Ste. Marie | 2,400 00 | 31,667 25 | 2,800 00 | 36,867 25 | 36 23 | 8 93 | 45 16 | 18 28 | 8 93 | 27 21 | 12 04 | 8 93 | 20 97 | 16 30 | 8 93 | 25 23 |
| South Haven | 1,300 00 | 10,194 43 | 675 00 | 12,169 43 | 28 86 | 3 56 | 32 42 | 13 70 | 3 56 | 17 26 | 11 50 | 3 56 | 15 06 | 15 19 | 3 56 | 18 75 |
| Standish | 750 00 | 2,900 00 | ........ | 3,650 00 | 29 26 | 3 56 | 32 82 | 8 55 | 3 56 | 12 11 | 6 91 | 3 56 | 10 47 | 10 61 | 3 56 | 14 17 |
| Stanton | 900 00 | 2,877 25 | ........ | 3,777 25 | 26 36 | 3 32 | 29 68 | 12 26 | 3 32 | 15 58 | 11 22 | 3 32 | 14 54 | 14 81 | 3 32 | 18 13 |
| Sturgis | 1,150 00 | 5,488 25 | 400 00 | 7,038 25 | 32 84 | 12 55 | 45 39 | 12 80 | 12 55 | 25 35 | 10 56 | 12 55 | 23 11 | 14 36 | 12 55 | 26 91 |
| Tawas City | 875 00 | 2,600 00 | ........ | 3,475 00 | 37 33 | 4 17 | 41 50 | 9 49 | 4 17 | 13 66 | 10 75 | 4 17 | 14 92 | 13 31 | 4 17 | 17 48 |
| Three Rivers | 1,400 00 | 11,781 00 | 475 00 | 13,656 00 | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | 18 60 | 4 26 | 22 86 |
| Traverse City | 1,900 00 | 25,593 83 | 1,130 00 | 28,623 83 | 24 48 | 4 85 | 29 33 | 12 47 | 4 85 | 17 32 | 11 21 | 4 85 | 16 06 | 13 67 | 4 85 | 18 53 |
| West Branch | 750 00 | 3,120 00 | ........ | 3,870 00 | 17 10 | 2 98 | 20 08 | 7 85 | 2 98 | 10 83 | 7 26 | 2 98 | 10 24 | 8 87 | 2 98 | 11 85 |
| Wyandotte | 1,300 00 | 11,516 38 | 450 00 | 13,266 38 | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | 14 17 | 6 71 | 20 88 |
| Yale | 900 00 | 3,243 00 | ........ | 4,143 00 | 36 40 | 9 25 | 45 65 | 11 10 | 9 23 | 20 35 | 9 40 | 9 25 | 18 65 | 13 72 | 9 25 | 22 97 |
| Ypsilanti | 1,336 00 | 14,164 00 | 1,325 00 | 16,825 00 | 30 53 | 9 88 | 40 41 | 14 16 | 9 88 | 24 04 | 12 86 | 9 88 | 22 74 | 17 22 | 9 88 | 27 10 |

## TABLE XIX.—Continued.

| Incorporated villages. | Amount paid superintendent. | Amount paid regular teachers. | Amount paid special teachers. | Total amount paid for instruction. | Cost of education per capita in— | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | High school. | | | Grammar department. | | | Primary department. | | | Whole school. | | |
| | | | | | Instruction. | Incidentals. | Total. | Instruction. | Incidentals. | Total. | Instruction. | Incidentals. | Total. | Instruction. | Incidentals. | Total. |
| Addison | $700 00 | $1,325 00 | ........ | $2,025 00 | $25 56 | $13 95 | $39 51 | $9 47 | $13 95 | $23 42 | $4 90 | $13 95 | $18 85 | $10 55 | $13 96 | $24 50 |
| Alanson | 495 00 | 1,215 00 | ........ | 1,710 00 | 17 67 | 3 50 | 21 17 | 9 69 | 3 50 | 13 19 | 7 80 | 3 50 | 11 30 | 10 18 | 3 50 | 13 68 |
| Algonac | 1,000 00 | 2,875 00 | ........ | 3,875 00 | 69 04 | 10 35 | 79 39 | 9 70 | 10 35 | 20 05 | 8 66 | 10 35 | 19 01 | 13 29 | 10 35 | 23 64 |
| Allegan | 1,450 00 | 7,437 00 | $665 00 | 9,552 00 | 26 76 | 1 74 | 28 50 | 13 36 | 1 74 | 15 10 | 7 98 | 1 74 | 9 72 | 14 62 | 1 74 | 16 36 |
| Almont | 850 00 | 2,075 00 | ........ | 2,925 00 | 31 55 | 7 09 | 38 64 | 13 68 | 7 09 | 20 77 | 10 18 | 7 09 | 17 27 | 16 16 | 7 09 | 23 25 |
| Applegate | 405 00 | ........ | ........ | 405 00 | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | 4 85 | 1 55 | 6 40 |
| Armada | 800 00 | 1,542 00 | ........ | 2,342 00 | 5 43 | 2 91 | 8 34 | 7 38 | 2 91 | 10 29 | 8 83 | 2 91 | 11 74 | 11 20 | 2 91 | 14 11 |
| Ashley | 522 50 | 1,116 25 | ........ | 1,638 75 | 19 03 | 1 03 | 20 06 | 9 29 | 1 03 | 10 32 | 9 91 | 1 03 | 10 94 | 12 41 | 1 03 | 13 44 |
| Athens | 630 00 | 1,395 00 | ........ | 2,025 00 | 24 23 | 2 39 | 26 62 | 6 92 | 2 39 | 9 31 | 9 00 | 2 39 | 11 39 | 11 84 | 2 39 | 14 23 |
| †Atlanta | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ |
| Attica | 500 00 | 280 00 | ........ | 780 00 | 71 42 | 2 27 | 73 69 | 4 51 | 2 27 | 6 78 | 2 59 | 2 27 | 4 86 | 8 48 | 2 27 | 10 75 |
| Augusta | 675 00 | 1,748 00 | ........ | 2,423 00 | 22 91 | 4 20 | 27 11 | 11 37 | 4 20 | 15 57 | 11 76 | 4 20 | 15 96 | 15 63 | 4 20 | 19 83 |
| Baldwin | 500 00 | 620 00 | ........ | 1,120 00 | ........ | ........ | ........ | * 9 56 | * 7 25 | * 16 81 | 6 31 | 7 25 | 13 56 | 8 36 | 7 25 | 15 61 |
| Bancroft | 735 00 | 1,050 00 | 350 00 | 2,135 00 | 49 32 | 5 85 | 55 17 | 9 72 | 5 85 | 15 57 | 11 47 | 5 85 | 17 32 | 17 94 | 5 85 | 23 79 |
| Bangor | 900 00 | 3,154 00 | ........ | 4,054 00 | 15 83 | 4 52 | 20 35 | 9 93 | 4 52 | 14 45 | 10 20 | 4 52 | 14 72 | 11 72 | 4 52 | 16 24 |
| Baraga | 1,200 00 | 6,650 00 | ........ | 7,850 00 | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | 13 77 | 5 10 | 18 77 |
| Bear Lake | 600 00 | 1,080 00 | ........ | 1,680 00 | 30 00 | 6 05 | 36 05 | 7 20 | 6 05 | 13 25 | 20 57 | 6 05 | 26 62 | 12 00 | 6 05 | 18 05 |
| Bellaire | 900 00 | 2,610 00 | 585 00 | 4,095 00 | 30 29 | 22 | 30 51 | 7 50 | 22 | 7 72 | 10 91 | 22 | 11 13 | 13 08 | 22 | 13 30 |
| Belleville | 700 00 | 1,200 00 | ........ | 1,900 00 | 22 48 | 4 55 | 27 03 | 12 82 | 4 55 | 17 37 | 11 13 | 4 55 | 15 68 | 14 28 | 4 55 | 18 83 |
| Bellevue | 850 00 | 2,056 75 | 100 00 | 3,006 75 | 22 51 | 9 01 | 31 52 | 9 61 | 9 01 | 18 62 | 8 36 | 9 01 | 17 31 | 12 85 | 9 01 | 21 86 |
| Bensonia | 700 00 | 1,417 50 | ........ | 2,117 50 | 18 54 | 2 45 | 20 99 | 11 89 | 2 45 | 14 34 | 10 00 | 2 45 | 12 45 | 12 31 | 2 45 | 14 76 |
| Berrien Springs | 850 00 | 2,495 00 | ........ | 2,695 00 | 29 30 | 3 49 | 32 79 | 12 52 | 3 49 | 16 01 | 9 88 | 3 49 | 13 37 | 14 72 | 3 49 | 18 21 |
| Birmingham | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ |
| Blissfield No. 1 fr | 700 00 | 970 00 | ........ | 1,670 00 | 26 92 | 5 15 | 32 07 | 11 21 | 5 15 | 16 36 | 7 06 | 5 15 | 12 21 | 11 60 | 5 15 | 16 75 |
| Blissfield No. 2 fr | 775 00 | 1,700 00 | ........ | 2,475 00 | 28 08 | 3 28 | 31 36 | 8 80 | 3 28 | 12 08 | 7 79 | 3 28 | 11 07 | 12 13 | 3 28 | 15 41 |
| Bloomingdale | 880 00 | 1,048 75 | ........ | 1,928 75 | 10 04 | 2 41 | 12 45 | 20 06 | 2 41 | 22 47 | 15 64 | 2 41 | 18 05 | 13 68 | 2 41 | 16 09 |
| Boardman | 540 00 | 1,008 00 | ........ | 1,548 00 | 15 00 | 4 35 | 19 35 | 13 84 | 4 35 | 18 19 | 6 89 | 4 35 | 11 24 | 9 90 | 4 35 | 14 25 |
| Boyne City | 1,000 00 | 6,589 75 | ........ | 7,589 75 | 35 48 | 6 32 | 41 80 | 10 47 | 6 32 | 16 79 | 9 30 | 6 32 | 15 62 | 11 76 | 6 32 | 18 08 |
| Boyne Falls | 555 00 | 1,086 75 | ........ | 1,641 75 | 16 81 | 5 27 | 22 08 | 15 10 | 5 27 | 20 37 | 8 06 | 5 27 | 13 33 | 13 14 | 5 27 | 18 41 |
| Breedsville | 540 00 | 315 00 | ........ | 855 00 | ........ | ........ | ........ | 19 28 | 2 96 | 22 24 | 9 84 | 2 96 | 12 80 | 14 25 | 2 96 | 17 21 |

---

* Includes high school and grammar department.

† Not legally graded.

## TABLE XIX.—CONTINUED.

| Incorporated villages. | Amount paid superintendent. | Amount paid regular teachers. | Amount paid special teachers. | Total amount paid for instruction. | Cost of education per capita in— | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | High school. | | | Grammar department. | | | Primary department. | | | Whole school. | | |
| | | | | | Instruction. | Incidentals. | Total. | Instruction. | Incidentals. | Total. | Instruction. | Incidentals. | Total. | Instruction. | Incidentals. | Total. |
| Brighton | $850 00 | $1,585 00 | ............ | $2,435 00 | $15 55 | $4 93 | $20 48 | $13 82 | $4 93 | $18 75 | $13 59 | $4 93 | $18 52 | $14 15 | $4 93 | $19 08 |
| Britton | 450 00 | 585 00 | ............ | 1,035 00 | 13 64 | 3 16 | 16 80 | 7 50 | 3 16 | 10 66 | 6 13 | 3 16 | 9 29 | 8 70 | 3 16 | 11 86 |
| Bronson | 807 50 | 2,655 00 | ............ | 3,462 50 | 19 38 | 5 18 | 24 56 | 11 93 | 5 18 | 17 11 | 24 12 | 5 18 | 29 30 | 16 33 | 5 18 | 21 51 |
| Brooklyn | 750 00 | 1,650 00 | ............ | 2,400 00 | 25 46 | 4 99 | 30 45 | 9 86 | 4 99 | 14 85 | 10 21 | 4 99 | 15 20 | 14 63 | 4 99 | 19 62 |
| Brown City | 675 00 | 1,270 00 | ............ | 1,945 00 | 15 00 | 3 89 | 18 89 | 8 92 | 3 89 | 12 81 | 4 84 | 3 89 | 8 73 | 7 49 | 3 89 | 11 38 |
| Buchanan | 1,000 00 | 4,887 97 | $190 00 | 6,077 97 | 21 94 | 13 06 | 35 00 | 20 10 | 13 06 | 33 16 | 13 95 | 13 06 | 27 01 | 18 75 | 13 06 | 31 81 |
| Burlington | 450 00 | 500 00 | ............ | 950 00 | 16 07 | 2 62 | 18 69 | 12 50 | 2 62 | 15 12 | 8 33 | 2 62 | 10 95 | 12 18 | 2 62 | 14 80 |
| Burr Oak | 630 55 | 2,025 00 | ............ | 2,655 00 | 23 81 | 6 70 | 30 51 | 14 24 | 6 70 | 20 94 | 15 97 | 6 70 | 22 67 | 17 35 | 6 70 | 24 05 |
| Byron | 600 00 | 975 00 | ............ | 1,575 00 | 35 00 | 5 12 | 40 12 | 9 72 | 5 12 | 14 84 | 12 50 | 5 12 | 17 62 | 14 06 | 5 12 | 19 18 |
| Caledonia | 750 00 | 790 00 | ............ | 1,540 00 | 5 20 | 2 92 | 8 12 | 9 84 | 2 92 | 12 76 | 18 57 | 2 92 | 21 49 | 10 40 | 2 92 | 13 32 |
| Calumet | 3,300 00 | 89,054 41 | 3,000 00 | 95,354 41 | 47 46 | 5 68 | 53 14 | 29 97 | 5 68 | 35 65 | 11 48 | 5 68 | 17 16 | 16 87 | 5 68 | 22 55 |
| Camden | 600 00 | 1,263 00 | ............ | 1,863 00 | 17 19 | 6 32 | 23 51 | 14 71 | 6 32 | 21 03 | 18 78 | 6 32 | 25 10 | 17 41 | 6 32 | 38 41 |
| Capac | 600 00 | 1,650 00 | ............ | 2,250 00 | 22 50 | 8 82 | 31 32 | 10 60 | 8 82 | 19 42 | 9 02 | 8 82 | 17 85 | 12 64 | 8 82 | 21 46 |
| Caro | 1,000 00 | 6,090 00 | 500 00 | 7,570 00 | 24 56 | 6 60 | 31 16 | 12 80 | 6 60 | 19 40 | 11 95 | 6 60 | 18 55 | 15 54 | 6 60 | 22 15 |
| Carson City | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ |
| Carsonville | 650 00 | 750 00 | ............ | 1,400 00 | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | 6 64 | 45 | 7 09 |
| Caseville | 626 25 | 805 00 | ............ | 1,431 25 | 23 19 | 3 01 | 26 20 | 7 94 | 3 01 | 10 95 | 6 45 | 3 01 | 9 46 | 10 22 | 3 01 | 13 22 |
| Casnovia | 585 00 | 585 00 | ............ | 1,170 00 | 26 60 | 2 80 | 29 40 | 12 86 | 2 80 | 15 66 | 7 50 | 2 80 | 10 30 | 13 77 | 2 80 | 16 57 |
| Cass City | 1,000 00 | 3,230 00 | 200 00 | 4,430 00 | 20 33 | 53 | 20 86 | 5 90 | 53 | 6 43 | 10 70 | 53 | 11 23 | 11 94 | 53 | 12 47 |
| Cassopolis | 1,000 00 | 3,006 50 | ............ | 4,006 50 | 43 82 | 5 58 | 49 40 | 8 58 | 5 58 | 14 16 | 11 71 | 5 58 | 17 29 | 17 05 | 5 58 | 22 63 |
| Cedar Springs | 850 00 | 2,426 00 | ............ | 3,276 00 | 35 07 | 4 23 | 39 30 | 19 09 | 4 23 | 23 32 | 3 28 | 4 23 | 7 51 | 13 76 | 4 23 | 17 99 |
| Central Lake | 900 00 | 2,632 50 | 225 00 | 3,757 00 | 39 28 | 12 81 | 52 09 | 10 93 | 12 81 | 23 74 | 12 69 | 12 81 | 25 50 | 16 12 | 12 81 | 28 93 |
| Centreville | 800 00 | 1,800 00 | ............ | 2,600 00 | 34 06 | 5 05 | 39 11 | 25 17 | 5 05 | 31 22 | 12 18 | 5 05 | 17 23 | 20 97 | 5 05 | 26 02 |
| Chelsea | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ |
| Chesaning | 1,200 00 | 2,910 00 | ............ | 4,110 00 | 30 00 | 3 94 | 33 94 | 13 84 | 3 94 | 17 78 | 11 60 | 3 94 | 15 54 | 16 44 | 3 94 | 20 38 |
| Clarkston | 750 00 | 2,350 00 | ............ | 3,100 00 | 40 71 | 5 99 | 46 70 | 24 41 | 5 99 | 30 40 | 16 02 | 5 99 | 22 01 | 26 49 | 5 99 | 32 48 |
| Clayton | 650 00 | 495 00 | ............ | 1,145 00 | 18 57 | 1 50 | 20 07 | 7 94 | 1 50 | 9 44 | 10 23 | 1 50 | 11 73 | 12 58 | 1 50 | 14 08 |
| †Clifford | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ |
| Climax | 495 00 | 945 00 | ............ | 1,440 00 | 35 22 | 27 | 35 49 | 7 50 | 27 | 7 77 | 6 70 | 27 | 6 97 | 12 86 | 27 | 13 13 |
| Clinton | 900 00 | 2,162 50 | ............ | 3,062 50 | 32 45 | 3 35 | 35 80 | 10 04 | 3 35 | 13 39 | 8 09 | 3 35 | 11 44 | 14 24 | 3 35 | 17 59 |
| Clio | 750 00 | 2,020 00 | 200 00 | 2,970 00 | 30 90 | 22 | 31 12 | 18 19 | 22 | 18 41 | 24 76 | 22 | 24 98 | 24 34 | 22 | 24 56 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coloma | 630 00 | 2,025 00 | ... | 2,655 00 | 25 39 | 34 | 25 73 | 8 85 | 34 | 9 19 | 11 52 | 34 | 11 86 | 12 90 | 34 | 13 24 |
| Colon | 750 00 | 2,205 00 | ... | 2,955 00 | 40 48 | 5 50 | 45 98 | 12 28 | 5 50 | 17 78 | 9 66 | 5 50 | 15 16 | 17 48 | 5 50 | 22 98 |
| Columbiaville | 650 00 | 1,046 50 | ... | 1,696 50 | 112 50 | 14 74 | 127 24 | 9 81 | 14 74 | 24 55 | 7 47 | 14 74 | 22 21 | 16 63 | 14 74 | 31 37 |
| Concord | 800 00 | 1,594 00 | 74 00 | 2,468 00 | 30 62 | 47 | 31 09 | 20 68 | 47 | 21 15 | 15 11 | 47 | 15 58 | 21 65 | 47 | 22 12 |
| Constantine | 1,300 00 | 2,700 00 | ... | 4,000 00 | 37 58 | 4 08 | 41 66 | 13 13 | 4 08 | 17 21 | 8 26 | 4 08 | 12 34 | 15 81 | 4 08 | 19 89 |
| Coopersville | 600 00 | 1,452 50 | ... | 2,052 50 | 15 04 | 2 46 | 17 50 | 8 81 | 2 46 | 11 27 | 8 08 | 2 46 | 10 54 | 10 63 | 2 46 | 13 09 |
| Copemish | 400 00 | 675 00 | ... | 1,075 00 | 4 04 | 2 73 | 6 77 | 12 03 | 2 73 | 14 76 | 7 86 | 2 73 | 10 59 | 8 20 | 2 73 | 10 93 |
| †Croton | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Custer | 450 00 | 315 00 | ... | 765 00 | ... | ... | ... | * 7 76 | * 15 | * 7 91 | 5 72 | 15 | 5 87 | 6 77 | 15 | 6 92 |
| †Daggett | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Dansville | 700 00 | 990 00 | ... | 1,690 00 | 32 40 | 1 01 | 33 41 | 22 00 | 1 01 | 23 01 | 11 89 | 1 01 | 12 90 | 20 61 | 1 01 | 21 62 |
| Davison | 600 00 | 1,700 00 | ... | 2,300 00 | 20 00 | 10 09 | 30 09 | 14 28 | 10 09 | 24 37 | 10 09 | 10 09 | 20 18 | 13 63 | 10 09 | 23 72 |
| Dearborn | 800 00 | 1,350 00 | 100 00 | 2,750 00 | 45 60 | 3 95 | 49 55 | 5 21 | 3 95 | 9 16 | 7 72 | 3 95 | 11 67 | 67 07 | 3 95 | 71 02 |
| Decatur | 1,000 00 | 2,497 00 | ... | 3,497 00 | 24 19 | 3 56 | 27 75 | 9 79 | 3 56 | 13 35 | 7 03 | 3 56 | 10 59 | 12 02 | 3 56 | 15 58 |
| Deckerville | 675 00 | 900 00 | ... | 1,575 00 | 14 00 | 2 21 | 16 21 | 10 00 | 2 21 | 12 21 | 5 34 | 2 21 | 7 55 | 8 50 | 2 21 | 10 70 |
| Deerfield | 630 00 | 1,165 60 | ... | 1,795 60 | 26 12 | 4 74 | 30 86 | 7 50 | 4 74 | 12 24 | 7 40 | 4 74 | 12 14 | 11 89 | 4 74 | 16 63 |
| §Delray | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Detour | 750 00 | 2,070 00 | ... | 2,820 00 | 37 50 | 6 37 | 43 87 | 10 00 | 6 37 | 16 37 | 13 85 | 6 37 | 20 22 | 15 49 | 6 37 | 22 86 |
| Dexter | 810 00 | 2,340 00 | 135 00 | 3,285 00 | 23 56 | 3 28 | 26 84 | 11 13 | 3 28 | 14 41 | 12 02 | 3 28 | 15 30 | 14 93 | 3 28 | 18 21 |
| Douglass | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Dryden | 650 00 | 700 00 | ... | 1,350 00 | 20 00 | 2 50 | 22 50 | 10 00 | 2 50 | 12 50 | 5 00 | 2 50 | 7 50 | 15 00 | 2 50 | 17 50 |
| Dundee | 750 00 | 2,565 00 | ... | 3,315 00 | 34 79 | 4 44 | 39 23 | 12 20 | 4 44 | 16 66 | 9 47 | 4 44 | 13 91 | 15 00 | 4 44 | 19 44 |
| Durand | 1,000 00 | 4,832 25 | ... | 5,832 25 | 14 18 | 9 20 | 23 38 | 11 80 | 9 20 | 21 00 | 19 50 | 9 20 | 38 70 | 16 02 | 9 20 | 25 22 |
| †Eagle | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| East Grand Rapids | 400 00 | 700 00 | ... | 1,100 00 | 20 00 | 41 | 20 41 | 15 21 | 41 | 15 62 | 8 53 | 41 | 8 94 | 13 09 | 41 | 13 50 |
| East Jordan | 950 00 | 4,860 00 | 170 00 | 5,980 00 | 24 33 | 3 92 | 28 25 | 15 20 | 3 92 | 19 12 | 9 12 | 3 92 | 13 04 | 13 59 | 3 92 | 17 51 |
| Eau Claire | 600 00 | 1,003 50 | ... | 1,603 50 | 33 33 | 1 66 | 34 99 | 18 00 | 1 66 | 19 66 | 80 47 | 1 66 | 82 13 | 13 56 | 1 66 | 15 22 |
| Ecorse | 675 00 | 1,600 00 | ... | 2,275 00 | 73 12 | 6 97 | 80 09 | 21 67 | 6 97 | 28 64 | 9 18 | 6 97 | 16 15 | 16 37 | 6 97 | 23 34 |
| Edmore | 600 00 | 1,211 25 | ... | 1,811 25 | 17 64 | 4 39 | 22 03 | 7 38 | 4 39 | 11 77 | 8 63 | 4 39 | 13 02 | 9 79 | 4 39 | 14 18 |
| Elk Rapids | 1,300 00 | 5,145 00 | 382 50 | 6,827 50 | 25 90 | 11 43 | 37 33 | 12 90 | 11 43 | 24 33 | 11 61 | 11 43 | 23 04 | 14 90 | 11 43 | 26 33 |
| Elkton | 850 00 | 1,350 00 | ... | 2,200 00 | 30 00 | 56 | 30 56 | 3 40 | 56 | 3 96 | 6 79 | 56 | 7 35 | 9 52 | 56 | 10 08 |
| Elsie | 570 00 | 1,140 00 | ... | 1,710 00 | 19 43 | 9 10 | 28 53 | 8 40 | 9 10 | 17 50 | 4 07 | 9 10 | 13 17 | 9 40 | 9 10 | 18 50 |
| †Emmet | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Empire | 660 00 | 1,035 00 | ... | 1,695 00 | 31 50 | 7 64 | 39 14 | 18 73 | 7 64 | 26 37 | 4 42 | 7 64 | 12 06 | 8 65 | 7 64 | 16 29 |
| Essexvile | 738 50 | 1,350 00 | 50 00 | 2,138 50 | ... | ... | ... | 18 11 | 22 34 | 40 45 | 13 80 | 22 34 | 36 14 | 15 49 | 22 34 | 37 83 |
| Evart | 1,250 00 | 4,400 00 | ... | 5,650 00 | 31 52 | 7 91 | 39 43 | 16 10 | 7 91 | 24 01 | 12 24 | 7 91 | 20 15 | 17 65 | 7 91 | 25 56 |
| †Fairgrove | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| †Fairview | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Farmington | 700 00 | 998 10 | ... | 1,698 10 | 26 92 | 9 61 | 36 53 | 14 63 | 9 61 | 24 24 | 5 38 | 9 61 | 14 99 | 12 04 | 9 61 | 21 65 |
| Farwell | 600 00 | 1,498 50 | ... | 2,098 50 | 22 37 | 2 58 | 24 95 | 9 57 | 2 58 | 12 15 | 9 43 | 2 58 | 12 01 | 12 41 | 2 58 | 14 99 |
| Fennville | 765 00 | 1,440 00 | ... | 2,205 00 | 27 80 | 4 22 | 32 02 | 8 06 | 4 22 | 12 28 | 9 23 | 4 22 | 13 45 | 12 31 | 4 22 | 16 53 |
| Fenton | 1,100 00 | 5,569 75 | 400 00 | 7,069 75 | 26 97 | 18 13 | 45 10 | 12 43 | 18 13 | 30 56 | 10 56 | 18 13 | 28 69 | 14 88 | 18 13 | 33 01 |
| Fife Lake | 495 00 | 720 00 | ... | 1,215 00 | 9 24 | 2 82 | 12 06 | 18 37 | 2 82 | 21 19 | 7 38 | 2 82 | 10 20 | 10 04 | 2 82 | 12 86 |
| Flushing | 800 00 | 1,775 00 | ... | 2,575 00 | 25 76 | 8 45 | 34 21 | 10 18 | 8 45 | 18 63 | 10 27 | 8 45 | 18 72 | 13 92 | 8 45 | 22 37 |

---

* Includes high school and grammar department.

† Not legally graded.

§ Annexed to Detroit in June, 1906.

## TABLE XIX.—Continued.

| Incorporated villages. | Amount paid superintendent. | Amount paid regular teachers. | Amount paid special teachers. | Total amount paid for instruction. | Cost of education per capita in— | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | High school. | | | Grammar department. | | | Primary department. | | | Whole school. | | |
| | | | | | Instruction. | Incidentals. | Total. | Instruction. | Incidentals. | Total. | Instruction. | Incidentals. | Total. | Instruction. | Incidentals. | Total. |
| Ford | $750 00 | $1,675 00 | $250 00 | $2,675 00 | ........ | ........ | ........ | $16 67 | $8 51 | $25 18 | $9 32 | $8 51 | $17 83 | $12 38 | $8 51 | $20 89 |
| Forestville | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ |
| †Fowler | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ |
| Fowlerville | 800 00 | 2,350 00 | 200 00 | 3,350 00 | $25 00 | $5 02 | $30 02 | 10 53 | 5 02 | 15 55 | 15 49 | 5 02 | 20 51 | 18 81 | 5 02 | 23 83 |
| †Frankenmuth | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ |
| Frankfort | 1,000 00 | 4,666 31 | 356 25 | 6,022 56 | 23 33 | 2 46 | 25 79 | 12 69 | 2 46 | 15 15 | 10 24 | 2 46 | 12 70 | 12 36 | 2 46 | 14 82 |
| †Fraser | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ |
| Fremont | 1,000 00 | 4,135 00 | ........ | 5,135 00 | 29 63 | 4 28 | 33 91 | 13 88 | 4 28 | 18 16 | 9 82 | 4 28 | 14 10 | 17 07 | 4 28 | 21 35 |
| Fruitport | 700 00 | 750 00 | ........ | 1,450 00 | ........ | ........ | ........ | * 20 00 | * 9 97 | * 29 97 | 11 84 | 9 97 | 21 81 | 16 48 | 9 97 | 26 45 |
| Gagetown | 550 00 | 350 00 | ........ | 900 00 | ........ | ........ | ........ | * 15 71 | * 5 45 | * 21 16 | 9 46 | 5 45 | 14 91 | 12 50 | 5 45 | 17 95 |
| Gaines | 600 00 | 700 00 | ........ | 1,300 00 | 20 00 | 4 17 | 24 17 | 10 00 | 4 17 | 14 17 | 9 46 | 4 17 | 13 63 | 12 74 | 4 17 | 16 91 |
| Galesburg | 653 60 | 1,592 62 | 90 00 | 2,336 22 | 22 14 | 3 84 | 25 98 | 16 06 | 3 84 | 19 90 | 10 38 | 3 84 | 14 22 | 16 45 | 3 84 | 20 29 |
| Galien | 600 00 | 1,102 50 | ........ | 1,702 50 | 19 72 | 4 47 | 24 19 | 11 63 | 4 47 | 16 10 | 9 68 | 4 47 | 14 15 | 12 80 | 4 47 | 17 27 |
| †Garden | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ |
| Gaylord | 1,000 00 | 4,402 50 | ........ | 5,402 50 | 52 50 | 12 35 | 64 85 | 10 85 | 12 35 | 23 20 | 7 65 | 12 35 | 20 00 | 14 92 | 12 35 | 27 27 |
| †Glenwood | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ |
| Gobleville | 560 00 | 1,330 00 | ........ | 1,890 00 | 20 43 | 4 75 | 25 18 | 8 26 | 4 75 | 13 01 | 6 78 | 4 75 | 11 53 | 11 05 | 4 75 | 15 80 |
| Grandville | 700 00 | 1,400 00 | ........ | 2,100 00 | 17 64 | 1 23 | 18 87 | 12 44 | 1 23 | 13 67 | 6 89 | 1 23 | 8 12 | 10 29 | 1 23 | 11 52 |
| Grant | 540 00 | 360 00 | ........ | 900 00 | ........ | ........ | ........ | 13 50 | 56 | 14 06 | 6 55 | 56 | 7 11 | 9 98 | 56 | 10 54 |
| Grass Lake | 750 00 | 1,890 00 | 250 00 | 2,890 00 | 33 72 | 7 76 | 41 48 | 13 00 | 7 76 | 20 76 | 9 93 | 7 76 | 17 69 | 16 90 | 7 76 | 24 66 |
| Grayling | 1,000 00 | 3,420 00 | 400 00 | 4,820 00 | 45 37 | 5 07 | 50 44 | 12 04 | 5 07 | 17 11 | 8 18 | 5 07 | 13 25 | 13 35 | 5 07 | 18 42 |
| †Grosse Pointe | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ |
| Grosse Pointe Farms | 550 00 | 1,200 00 | ........ | 1,750 00 | ........ | ........ | ........ | 13 75 | 29 40 | 43 15 | 12 00 | 29 40 | 41 40 | 12 50 | 29 40 | 41 90 |
| Hamtramck | 850 00 | 3,125 00 | 146 25 | 4,121 25 | ........ | ........ | ........ | 20 47 | 7 75 | 28 22 | 8 27 | 7 75 | 16 02 | 10 96 | 7 75 | 18 21 |
| Hanover | 600 00 | 1,050 00 | ........ | 1,650 00 | 17 06 | 5 26 | 22 32 | 14 14 | 5 26 | 19 40 | 13 72 | 5 26 | 18 98 | 15 35 | 5 26 | 20 61 |
| Harbor Beach | 800 00 | 3,137 50 | ........ | 3,937 50 | 34 26 | 7 10 | 41 36 | 16 28 | 7 10 | 23 38 | 5 24 | 7 10 | 12 34 | 13 21 | 7 10 | 20 31 |
| Harbor Springs | 950 00 | 3,831 00 | ........ | 4,781 00 | 26 92 | 28 | 27 20 | 10 19 | 28 | 10 47 | 8 69 | 28 | 8 97 | 12 22 | 28 | 12 50 |
| Harrietta | 495 00 | 630 00 | ........ | 1,125 00 | 24 75 | 4 42 | 29 17 | 8 08 | 4 42 | 12 50 | 5 52 | 4 42 | 9 94 | 9 70 | 4 42 | 14 12 |
| Hart | 949 99 | 4,832 13 | 100 00 | 5,882 12 | 24 03 | 4 01 | 28 04 | 21 30 | 4 01 | 25 31 | 13 01 | 4 01 | 17 02 | 16 20 | 4 01 | 20 21 |
| Hartford | 800 00 | 2,717 50 | 225 00 | 3,742 50 | 17 45 | 5 14 | 22 59 | 9 64 | 5 14 | 14 78 | 9 11 | 5 14 | 14 25 | 11 31 | 5 14 | 16 45 |
| Hersey | 570 00 | 1,107 50 | ........ | 1,677 50 | 18 63 | 4 38 | 23 01 | 10 35 | 4 38 | 14 73 | 10 44 | 4 38 | 14 82 | 13 86 | 4 38 | 18 24 |
| Hesperia | 630 00 | 1,301 00 | ........ | 1,931 00 | 35 62 | 4 12 | 39 74 | 11 41 | 4 12 | 15 53 | 5 90 | 4 12 | 10 02 | 11 36 | 4 12 | 15 48 |
| Highland Park | 1,000 00 | 1,851 50 | ........ | 2,851 50 | ........ | ........ | ........ | 25 02 | 9 67 | 34 69 | 11 70 | 9 67 | 21 37 | 16 77 | 9 67 | 26 44 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hillman | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Holly | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Homer | 800 00 | 2,550 00 | 350 00 | 3,700 00 | 23 35 | 12 41 | 85 76 | 9 40 | 12 41 | 21 81 | 11 59 | 12 41 | 24 00 | 14 17 | 12 41 | 26 58 |
| Houghton | 2,000 00 | 20,995 75 | 600 00 | 23,595 75 | 45 07 | 15 17 | 60 24 | 13 06 | 15 17 | 33 23 | 14 50 | 15 17 | 29 67 | 19 13 | 15 17 | 34 30 |
| Howard City | 807 50 | 3,108 50 | 380 00 | 4,356 00 | 31 67 | 6 04 | 37 71 | 14 89 | 6 04 | 20 93 | 12 73 | 6 04 | 18 77 | 16 75 | 6 04 | 22 79 |
| Howell | 1,350 00 | 5,785 50 | 400 00 | 7,535 50 | 26 00 | 1 71 | 27 71 | 8 67 | 1 71 | 10 38 | 11 20 | 1 71 | 12 91 | 14 08 | 1 71 | 15 79 |
| Hubbardston | 585 00 | 630 00 | .... | 1,215 00 | 29 25 | 3 48 | 32 73 | 11 67 | 3 48 | 15 15 | 9 55 | 3 48 | 13 03 | 15 18 | 3 48 | 18 66 |
| **Hubbell | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Imlay City | 1,000 00 | 2,650 00 | .... | 3,650 00 | 28 83 | 3 77 | 32 00 | 9 75 | 3 77 | 13 52 | 6 84 | 3 77 | 10 61 | 12 54 | 3 77 | 16 31 |
| Iron River | 1,250 00 | 5,973 75 | .... | 7,223 75 | 21 72 | 22 30 | 44 02 | 28 92 | 22 30 | 51 22 | 11 08 | 22 30 | 33 38 | 18 38 | 22 30 | 40 68 |
| Ithaca | 1,100 00 | 4,347 50 | 350 00 | 5,797 50 | 28 31 | 8 09 | 36 40 | 9 81 | 8 09 | 17 90 | 7 59 | 8 09 | 15 68 | 11 78 | 8 09 | 19 87 |
| Jerome | 405 00 | 270 00 | .... | 675 00 | .... | .... | .... | * 25 31 | * 2 80 | * 28 11 | 9 00 | 2 80 | 11 80 | 13 50 | 2 80 | 16 30 |
| Jonesville | 750 00 | 2,830 00 | .... | 3,580 00 | 31 26 | 7 09 | 38 95 | 10 17 | 7 69 | 17 86 | 9 86 | 7 69 | 17 55 | 13 83 | 7 69 | 21 52 |
| Kalkaska | 900 00 | 3,450 00 | .... | 4,350 00 | 30 27 | 4 51 | 34 78 | 10 29 | 4 51 | 14 80 | 12 24 | 4 51 | 16 75 | 15 00 | 4 51 | 19 51 |
| †Kinde | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Kingsley | 585 00 | 783 00 | .... | 1,368 00 | 19 50 | 3 16 | 22 66 | 8 37 | 3 16 | 11 53 | 4 93 | 3 16 | 8 09 | 9 37 | 3 16 | 12 53 |
| Kingston | 550 00 | 300 00 | .... | 850 00 | .... | .... | .... | * 8 60 | * 2 20 | * 10 80 | 4 13 | 2 20 | 6 33 | 6 25 | 2 20 | 8 45 |
| Laingsburg | 600 00 | 1,400 00 | .... | 2,000 00 | 31 90 | 3 73 | 35 63 | 13 89 | 3 73 | 17 62 | 9 43 | 3 73 | 13 16 | 17 09 | 3 73 | 20 82 |
| Lake Ann | 450 00 | 315 00 | .... | 765 00 | .... | .... | .... | * 14 51 | * 5 64 | * 20 15 | 13 12 | 5 64 | 18 76 | 13 91 | 5 64 | 19 55 |
| Lake City | 540 00 | 1,670 00 | .... | 2,210 00 | 13 50 | 8 01 | 21 51 | 13 33 | 8 01 | 21 34 | 10 39 | 8 01 | 18 40 | 9 00 | 8 01 | 17 01 |
| Lake Linden | 1,800 00 | 15,635 00 | 1,135 00 | 18,570 00 | 40 70 | 12 07 | 52 77 | 38 25 | 12 07 | 50 32 | 17 47 | 12 07 | 29 54 | 26 45 | 12 07 | 38 52 |
| Lake Odessa | 850 00 | 3,125 92 | .... | 3,975 92 | 32 10 | 5 31 | 37 41 | 8 31 | 5 31 | 13 62 | 9 57 | 5 31 | 14 89 | 12 67 | 5 31 | 17 98 |
| Lakeview | 1,000 00 | 2,327 50 | .... | 3,327 50 | 16 93 | 3 25 | 20 18 | 6 77 | 3 25 | 10 02 | 14 13 | 3 25 | 17 38 | 12 80 | 3 25 | 16 05 |
| L'Anse | 1,200 00 | 5,770 75 | .... | 6,970 75 | 51 82 | 6 22 | 58 04 | 28 70 | 6 22 | 34 92 | 11 22 | 6 22 | 17 44 | 20 15 | 6 22 | 26 37 |
| ¶Laurium | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Lawrence | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Lawton | 800 00 | 1,665 00 | .... | 2,465 00 | 20 22 | 3 73 | 23 95 | 9 57 | 3 73 | 13 30 | 6 48 | 3 73 | 10 21 | 10 62 | 3 73 | 14 35 |
| Leonard | 525 00 | 600 00 | .... | 1,125 00 | 16 93 | 5 24 | 22 17 | 9 68 | 5 24 | 14 92 | 6 67 | 5 24 | 11 91 | 10 51 | 5 24 | 15 75 |
| Le Roy | 540 00 | 1,080 00 | .... | 1,620 00 | 20 77 | 7 55 | 28 32 | 9 64 | 7 55 | 17 19 | 9 15 | 7 55 | 16 70 | 11 49 | 7 55 | 19 04 |
| Leslie | 1,000 00 | 2,100 00 | .... | 3,100 00 | 20 30 | 9 31 | 29 61 | 11 08 | 9 31 | 20 39 | 9 11 | 9 31 | 18 42 | 12 90 | 9 31 | 22 21 |
| Lexington | 700 00 | 1,650 00 | .... | 2,350 00 | 29 10 | 6 47 | 35 57 | 11 98 | 6 47 | 18 45 | 16 13 | 6 47 | 22 60 | 17 94 | 6 47 | 24 41 |
| Linden | 650 00 | 1,282 50 | .... | 1,932 50 | 28 26 | 5 08 | 33 34 | 15 50 | 5 08 | 20 58 | 12 40 | 5 08 | 17 48 | 16 80 | 5 08 | 21 88 |
| Lisbon | 585 00 | 315 00 | .... | 900 00 | .... | .... | .... | 22 50 | 4 41 | 26 91 | 8 31 | 4 41 | 12 71 | 14 06 | 4 41 | 18 47 |
| Litchfield | 600 00 | 1,350 00 | .... | 1,950 00 | 19 09 | 4 76 | 23 85 | 13 87 | 4 76 | 18 63 | 10 89 | 4 76 | 15 65 | 12 26 | 4 76 | 17 02 |
| Lowell | 1,300 00 | 3,802 50 | .... | 5,102 50 | 19 56 | 8 46 | 28 02 | 6 41 | 8 46 | 14 87 | 9 57 | 8 46 | 18 03 | 10 98 | 8 46 | 19 44 |
| Luther | 600 00 | 1,301 25 | .... | 1,901 25 | 20 00 | 3 51 | 23 51 | 7 92 | 3 51 | 11 43 | 5 83 | 3 51 | 9 34 | 8 72 | 3 51 | 12 23 |
| Lyons | 600 00 | 1,345 50 | .... | 1,945 50 | 30 03 | 7 62 | 37 65 | 17 63 | 7 62 | 25 25 | 5 06 | 7 62 | 12 68 | 13 70 | 7 62 | 21 32 |
| Mackinaw City | 675 00 | 1,125 00 | .... | 1,800 00 | 22 50 | 2 76 | 25 26 | 12 66 | 2 76 | 15 42 | 6 48 | 2 76 | 9 24 | 10 40 | 2 76 | 13 16 |
| Mancelona | 900 00 | 4,635 00 | .... | 5,535 00 | 23 95 | 10 62 | 34 57 | 11 69 | 10 62 | 22 31 | 10 55 | 10 62 | 21 17 | 12 72 | 10 62 | 23 34 |
| Manchester | 1,000 00 | 2,520 00 | 180 00 | 3,700 00 | 26 67 | 6 10 | 32 77 | 10 31 | 6 10 | 16 41 | 7 75 | 6 10 | 13 85 | 13 65 | 6 10 | 19 75 |
| Manton | 800 00 | 2,655 00 | .... | 3,455 00 | 43 33 | 4 10 | 47 43 | 11 72 | 4 10 | 15 82 | 4 13 | 4 10 | 8 23 | 10 88 | 4 10 | 14 98 |
| Maple Rapids | 700 00 | 1,100 00 | .... | 1,800 00 | 18 96 | 3 21 | 22 17 | 10 29 | 3 21 | 13 50 | 7 29 | 3 21 | 10 50 | 12 96 | 3 21 | 16 07 |

---

* Includes high school and grammar department.

† Not legally graded.

¶ Report included with Calumet.

** Report included in Lake Linden.

## TABLE XIX.—CONTINUED.

| Incorporated villages. | Amount paid superintendent. | Amount paid regular teachers. | Amount paid special teachers. | Total amount paid for instruction. | Cost of education per capita in— | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | High school. | | | Grammar department. | | | Primary department. | | | Whole school. | | |
| | | | | | Instruction. | Incidentals. | Total. | Instruction. | Incidentals. | Total. | Instruction. | Incidentals. | Total. | Instruction. | Incidentals. | Total. |
| Marcellus | $800 00 | $2,340 00 | .......... | $3,140 00 | $28 27 | $2 84 | $31 11 | $10 00 | $2 84 | $12 84 | $10 86 | $2 84 | $13 70 | $15 16 | $2 84 | $18 00 |
| Marion | 657 00 | 1,287 00 | .......... | 1,944 00 | 18 04 | 6 10 | 24 14 | 7 05 | 6 10 | 13 15 | 6 58 | 6 10 | 12 68 | 8 42 | 6 10 | 14 52 |
| †Marlborough | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... |
| Marlette | 850 00 | 3,312 50 | .......... | 4,162 50 | 24 26 | 6 00 | 30 26 | 11 31 | 6 00 | 17 31 | 11 14 | 6 00 | 17 14 | 14 60 | 6 00 | 20 60 |
| †Maybee | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... |
| Mayville | 700 00 | 1,550 00 | .......... | 2,250 00 | 20 17 | 1 45 | 21 62 | 7 14 | 1 45 | 8 59 | 7 21 | 1 45 | 8 66 | 10 71 | 1 45 | 12 16 |
| McBain | 585 00 | 2,371 50 | .......... | 2,430 00 | 44 03 | 5 21 | 49 24 | 13 23 | 5 21 | 18 44 | 8 59 | 5 21 | 13 80 | 12 86 | 5 21 | 18 07 |
| McBrides | 650 00 | 666 00 | .......... | 1,316 00 | 25 00 | 3 74 | 28 74 | 7 78 | 3 74 | 11 52 | 7 35 | 3 74 | 11 09 | 11 52 | 3 74 | 15 26 |
| Mecosta | 540 00 | 585 00 | .......... | 1,125 00 | 13 50 | 3 14 | 16 64 | 5 83 | 3 14 | 8 97 | 7 11 | 3 14 | 10 25 | 8 52 | 3 14 | 11 66 |
| Memphis | 650 00 | 1,600 00 | .......... | 2,250 00 | 19 81 | 6 31 | 26 12 | 12 90 | 6 31 | 19 21 | 8 00 | 6 31 | 14 31 | 13 64 | 6 31 | 19 95 |
| Mendon | 850 00 | 2,198 00 | .......... | 3,048 00 | 24 98 | 10 71 | 35 69 | 15 35 | 10 71 | 26 06 | 9 42 | 10 71 | 20 13 | 16 21 | 10 71 | 26 92 |
| †Merrill | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... |
| Mesick | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... |
| Metamora | 850 00 | 670 00 | .......... | 1,520 00 | 25 76 | 3 54 | 29 30 | 12 96 | 3 54 | 16 50 | 12 31 | 3 54 | 15 85 | 17 68 | 3 54 | 21 22 |
| Middleville | 900 00 | 2,175 00 | .......... | 3,075 00 | 27 82 | 10 34 | 38 16 | 14 17 | 10 34 | 24 51 | 11 71 | 10 34 | 22 05 | 17 01 | 10 34 | 27 35 |
| Milan | 900 00 | 2,700 00 | .......... | 3,600 00 | 21 42 | 3 97 | 25 39 | 11 13 | 3 97 | 15 10 | 6 94 | 3 97 | 10 91 | 11 42 | 3 97 | 15 39 |
| Milford | 950 00 | 2,460 00 | .......... | 3,410 00 | 40 21 | 1 40 | 41 61 | 4 54 | 1 40 | 5 94 | 16 35 | 1 40 | 17 75 | 17 31 | 1 40 | 18 71 |
| Millersburg | 550 00 | 1,050 00 | .......... | 1,600 00 | 76 25 | 3 58 | 79 83 | 13 21 | 3 58 | 16 79 | 6 55 | 3 58 | 10 13 | 10 67 | 3 58 | 14 25 |
| Millington | 800 00 | 1,350 00 | .......... | 2,150 00 | 20 00 | 8 00 | 28 00 | 5 79 | 8 00 | 13 79 | 6 73 | 8 00 | 14 73 | 10 33 | 8 00 | 18 33 |
| Minden | 540 00 | 585 00 | .......... | 1,125 00 | 19 29 | 1 64 | 20 93 | 9 26 | 1 64 | 10 90 | 4 91 | 1 64 | 6 55 | 9 61 | 1 64 | 11 25 |
| Montague | 900 00 | 2,137 50 | $100 00 | 3,137 50 | 26 32 | 5 81 | 32 13 | 10 83 | 5 81 | 11 64 | 8 81 | 5 81 | 14 62 | 12 86 | 5 81 | 18 67 |
| †Montrose | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... |
| Morenci | 1,125 00 | 1,953 00 | .......... | 3,078 00 | 29 91 | 3 37 | 33 28 | 7 67 | 3 37 | 11 04 | 6 79 | 3 37 | 10 16 | 11 93 | 3 37 | 15 30 |
| Morley | 504 00 | 558 00 | .......... | 1,062 00 | 10 96 | 2 78 | 13 74 | 12 27 | 2 78 | 15 05 | 9 60 | 2 78 | 12 38 | 10 84 | 2 78 | 13 62 |
| Morrice | 700 00 | 1,050 00 | .......... | 1,750 00 | 26 92 | 4 65 | 31 57 | 17 50 | 4 65 | 22 15 | 7 20 | 4 65 | 11 85 | 13 56 | 4 65 | 18 21 |
| Mt. Morris | 800 00 | 1,125 00 | .......... | 1,925 00 | 20 31 | 12 | 20 43 | 7 87 | 12 | 7 99 | 8 52 | 12 | 8 64 | 11 67 | 12 | 11 79 |
| Muir | 500 00 | 810 00 | .......... | 1,310 00 | 41 67 | 4 35 | 46 02 | 10 80 | 4 35 | 15 15 | 10 39 | 4 35 | 14 74 | 14 72 | 4 35 | 19 07 |
| †Mulliken | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... |
| Munising | 1,300 00 | 8,845 00 | 500 00 | 10,645 00 | 37 64 | 18 78 | 56 42 | 18 33 | 18 78 | 37 11 | 5 75 | 18 78 | 24 53 | 16 63 | 18 78 | 35 41 |
| Nashville | 850 00 | 2,875 00 | 120 00 | 3,845 00 | 23 52 | 5 18 | 28 70 | 11 96 | 5 18 | 17 14 | 8 69 | 5 18 | 13 87 | 14 24 | 5 18 | 19 42 |
| †Naubinway | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... | .......... |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Newaygo | 800 00 | 3,000 00 | .... | 3,800 00 | 22 66 | 11 36 | 34 02 | 9 37 | 11 36 | 20 76 | 9 08 | 11 36 | 20 44 | 11 45 | 11 36 | 22 81 |
| New Baltimore | 900 00 | 2,590 00 | .... | 3,490 00 | 35 71 | 6 04 | 41 75 | 20 09 | 6 04 | 26 13 | 10 70 | 6 04 | 16 74 | 19 72 | 6 04 | 25 76 |
| Newberry | 1,200 00 | 7,250 00 | 600 00 | 9,050 00 | 69 44 | 8 22 | 77 66 | 15 92 | 8 22 | 24 14 | 16 86 | 8 22 | 25 08 | 20 95 | 8 22 | 29 17 |
| †New Boston | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| New Buffalo | 600 00 | 1,057 50 | .... | 1,657 50 | 27 27 | 5 89 | 33 16 | 9 86 | 5 89 | 15 75 | 6 14 | 5 89 | 12 03 | 11 05 | 5 89 | 16 94 |
| New Haven | 540 00 | 603 00 | .... | 1,143 00 | 19 29 | 8 41 | 27 70 | 7 88 | 8 41 | 16 29 | 6 86 | 8 41 | 15 27 | 10 39 | 8 41 | 18 80 |
| North Adams | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| North Branch | 900 00 | 1,650 00 | .... | 2,550 00 | 25 38 | 5 98 | 31 36 | 10 13 | 5 98 | 16 11 | 8 34 | 5 98 | 14 32 | 13 80 | 5 98 | 19 78 |
| Northport | 650 00 | 1,440 00 | .... | 2,090 00 | 32 50 | 6 56 | 39 06 | 6 35 | 6 56 | 12 91 | 7 96 | 6 56 | 14 52 | 9 59 | 6 56 | 16 15 |
| Northville | 1,100 00 | 4,350 00 | 250 00 | 5,700 00 | 33 46 | 3 84 | 37 30 | 11 80 | 3 84 | 15 64 | 10 80 | 3 84 | 14 64 | 14 54 | 3 84 | 18 38 |
| Oakley | 405 00 | 225 00 | .... | 630 00 | .... | .... | .... | 10 12 | 1 12 | 11 24 | 5 36 | 1 12 | 6 48 | 8 00 | 1 12 | 9 12 |
| Olivet | 750 00 | 2,065 00 | 150 00 | 2,965 00 | 30 11 | 2 97 | 33 08 | 11 53 | 2 97 | 14 50 | 10 62 | 2 97 | 13 59 | 16 57 | 2 97 | 19 54 |
| Onekama | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Ontonagon | 1,500 00 | 10,075 00 | .... | 11,575 00 | 45 83 | 1 04 | 46 87 | 19 81 | 1 04 | 20 85 | 15 21 | 1 04 | 16 25 | 19 39 | 1 04 | 20 43 |
| Orion | 700 00 | 1,675 00 | .... | 2,375 00 | 32 13 | 9 75 | 41 88 | 12 47 | 9 75 | 22 22 | 10 42 | 9 75 | 20 17 | 15 73 | 9 75 | 25 48 |
| Ortonville | 650 00 | 580 00 | .... | 1,230 00 | 22 41 | 53 | 22 94 | 9 37 | 53 | 9 90 | 7 77 | 53 | 8 30 | 12 68 | 53 | 13 21 |
| Oscoda | 675 00 | 1,659 00 | .... | 2,334 00 | 25 12 | 2 34 | 27 46 | 12 45 | 2 34 | 14 79 | 5 07 | 2 34 | 7 41 | 10 51 | 2 34 | 12 85 |
| Otisville | 600 00 | 600 00 | .... | 1,200 00 | 14 28 | 4 00 | 18 28 | 8 82 | 4 00 | 12 82 | 6 38 | 4 00 | 10 38 | 9 75 | 4 00 | 13 75 |
| Otsego | 1,211 00 | 4,868 71 | 279 00 | 6,358 71 | 23 36 | 6 17 | 29 53 | 10 68 | 6 17 | 16 85 | 11 01 | 6 17 | 17 18 | 13 53 | 6 17 | 19 70 |
| Otter Lake | 382 50 | 270 00 | .... | 652 50 | .... | .... | .... | * 17 39 | * 3 91 | * 21 30 | 7 71 | 3 91 | 11 62 | 11 45 | 3 91 | 15 36 |
| Ovid | 1,000 00 | 3,350 00 | 120 00 | 4,470 00 | 22 50 | 6 07 | 28 57 | 10 40 | 6 07 | 16 47 | 13 80 | 6 07 | 19 87 | 14 61 | 6 07 | 20 68 |
| †Owendale | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Oxford | 900 00 | 2,991 50 | .... | 3,891 50 | 40 49 | 6 45 | 46 94 | 11 33 | 6 45 | 17 78 | 15 03 | 6 45 | 21 48 | 18 71 | 6 45 | 25 16 |
| Parma | 650 00 | 1,450 00 | 180 00 | 2,280 00 | 22 55 | 4 28 | 26 83 | 11 74 | 4 28 | 16 02 | 9 11 | 4 28 | 13 39 | 14 16 | 4 28 | 18 44 |
| Paw Paw | 1,200 00 | 3,550 00 | 215 00 | 4,965 00 | 22 41 | 14 85 | 37 26 | 9 17 | 14 85 | 24 02 | 11 15 | 14 85 | 26 00 | 14 51 | 14 85 | 29 36 |
| †Peck | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Pentwater | 900 00 | 1,980 00 | .... | 2,880 00 | 29 87 | 5 01 | 34 88 | 8 48 | 5 01 | 13 49 | 8 01 | 5 01 | 13 02 | 11 38 | 5 01 | 16 39 |
| †Perrinton | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Perry | 800 00 | 1,850 00 | .... | 2,650 00 | 44 45 | 10 00 | 54 45 | 11 03 | 10 00 | 21 03 | 11 47 | 10 00 | 21 47 | 16 98 | 10 00 | 26 98 |
| Petersburg | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Pewamo | 540 00 | 603 00 | .... | 1,143 00 | 17 42 | 5 01 | 22 43 | 8 30 | 5 01 | 13 31 | 6 40 | 5 01 | 11 41 | 10 03 | 5 01 | 15 04 |
| Pierson | 387 00 | 288 00 | .... | 675 00 | .... | .... | .... | * 11 06 | * 3 45 | * 14 51 | 7 78 | 3 45 | 11 23 | 9 37 | 3 45 | 12 82 |
| Pigeon | 750 00 | 1,260 00 | .... | 2,010 00 | 34 26 | 4 07 | 38 33 | 6 56 | 4 07 | 10 63 | 4 67 | 4 07 | 8 74 | 8 85 | 4 07 | 12 92 |
| Pinckney | 700 00 | 1,400 00 | .... | 2,100 00 | 38 33 | 7 88 | 46 21 | 18 42 | 7 88 | 26 30 | 10 91 | 7 88 | 18 79 | 20 19 | 7 88 | 28 07 |
| Pinconning | 600 00 | 1,640 00 | .... | 2,240 00 | 13 68 | 12 21 | 25 89 | 13 34 | 12 21 | 25 55 | 4 00 | 12 21 | 16 21 | 9 49 | 12 21 | 21 70 |
| Plainwell | 1,150 00 | 3,078 00 | 142 50 | 4,370 50 | 25 91 | 6 74 | 32 65 | 11 62 | 6 74 | 18 36 | 11 30 | 6 74 | 18 04 | 15 95 | 6 74 | 22 69 |
| Plymouth | 1,100 00 | 3,850 00 | 350 00 | 5,300 00 | 30 70 | 25 71 | 56 41 | 9 30 | 25 71 | 35 01 | 10 06 | 25 71 | 36 76 | 13 59 | 25 71 | 39 30 |
| Port Austin | 750 00 | 1,600 00 | .... | 2,350 00 | 45 83 | 8 00 | 53 83 | 17 24 | 8 00 | 25 24 | 6 20 | 8 00 | 14 20 | 13 50 | 8 00 | 21 50 |
| Port Hope | 600 00 | 650 00 | .... | 1,250 00 | 21 43 | 4 15 | 25 58 | 25 00 | 4 15 | 29 15 | 12 50 | 4 15 | 16 65 | 18 65 | 4 15 | 22 80 |
| Portland | 900 00 | 4,550 00 | .... | 5,450 00 | 31 69 | 4 85 | 36 54 | 12 42 | 4 85 | 17 27 | 5 31 | 4 85 | 10 16 | 12 38 | 4 85 | 17 23 |
| Port Sanilac | 450 00 | 540 00 | .... | 990 00 | 10 00 | 5 07 | 15 07 | 12 27 | 5 07 | 17 34 | 7 10 | 5 07 | 12 17 | 9 43 | 5 07 | 14 50 |
| Potterville | 540 00 | 780 25 | .... | 1,320 25 | 15 00 | 5 28 | 20 28 | 8 37 | 5 28 | 13 65 | 6 67 | 5 28 | 11 95 | 9 23 | 5 28 | 14 51 |
| Quincy | 1,000 00 | 2,725 00 | .... | 3,725 00 | 20 66 | 5 96 | 26 62 | 10 82 | 5 96 | 16 78 | 11 37 | 5 96 | 17 33 | 14 60 | 5 96 | 20 56 |
| Reading | 1,100 00 | 2,156 50 | .... | 3,256 50 | 22 73 | 7 18 | 29 91 | 9 36 | 7 18 | 16 54 | 7 43 | 7 18 | 14 61 | 13 40 | 7 18 | 20 58 |

---

† Not legally graded.

* Includes high school and grammar department.

## TABLE XIX.—CONCLUDED.

| Incorporated villages. | Amount paid superintendent. | Amount paid regular teachers. | Amount paid special teachers. | Total amount paid for instruction. | Cost of education per capita in— | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | High school. | | | Grammar department. | | | Primary department. | | | Whole school. | | |
| | | | | | Instruction. | Incidentals. | Total. | Instruction. | Incidentals. | Total. | Instruction. | Incidentals. | Total. | Instruction. | Incidentals. | Total. |
| ¶Red Jacket | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ |
| Reed City | $1,100 00 | $5,190 00 | $855 00 | $7,145 00 | $39 17 | $1 31 | $40 48 | $16 80 | $1 31 | $18 11 | $14 86 | $1 31 | $16 17 | $18 70 | $1 31 | $20 01 |
| †Reese | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ |
| Richland | 630 00 | 990 00 | ........ | 1,620 00 | 28 30 | 9 23 | 37 53 | 12 11 | 9 23 | 21 34 | 24 23 | 9 23 | 33 46 | 22 19 | 9 23 | 31 42 |
| Richmond | 900 00 | 2,100 00 | ........ | 3,000 00 | 48 46 | 5 46 | 53 92 | 13 08 | 5 46 | 18 54 | 6 09 | 5 46 | 11 55 | 13 76 | 5 46 | 19 18 |
| River Rouge | 950 00 | 7,995 00 | 450 00 | 9,265 00 | 94 61 | 9 19 | 103 80 | 21 36 | 9 19 | 30 55 | 12 14 | 9 19 | 21 33 | 15 97 | 9 19 | 25 16 |
| Rochester | 1,000 00 | 2,375 00 | ........ | 3,375 00 | 26 94 | 3 00 | 29 94 | 7 32 | 3 00 | 10 32 | 9 49 | 3 00 | 12 49 | 12 68 | 3 00 | 15 68 |
| Rockford | 750 00 | 1,800 00 | ........ | 2,550 00 | 28 95 | 3 84 | 32 79 | 11 33 | 3 84 | 15 17 | 11 51 | 3 84 | 15 35 | 15 46 | 3 84 | 19 30 |
| Rogers | 540 00 | 1,532 50 | ........ | 2,072 50 | 36 00 | 4 45 | 40 45 | 15 00 | 4 45 | 19 45 | 8 66 | 4 45 | 13 11 | 12 19 | 4 45 | 16 64 |
| Romeo | 1,350 00 | 3,329 50 | 250 00 | 4,929 50 | 54 96 | 8 57 | 63 53 | 17 13 | 8 57 | 25 70 | 8 94 | 8 57 | 17 51 | 17 10 | 8 57 | 25 67 |
| Roscommon | 600 00 | 720 00 | ........ | 1,320 00 | 23 08 | 5 05 | 28 13 | 13 85 | 5 05 | 18 90 | 7 66 | 5 05 | 12 71 | 13 34 | 5 05 | 18 39 |
| Royal Oak | 750 00 | 2,070 00 | ........ | 2,820 00 | 42 86 | 5 66 | 48 52 | 8 25 | 5 66 | 13 91 | 6 65 | 5 66 | 12 31 | 12 60 | 5 66 | 18 26 |
| St. Charles | 1,000 00 | 2,950 00 | ........ | 3,950 00 | 39 06 | 6 50 | 45 56 | 10 80 | 6 50 | 17 30 | 6 81 | 6 50 | 13 31 | 10 37 | 6 50 | 16 87 |
| †St. Clair Heights | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ |
| Saline | 1,000 00 | 2,350 00 | ........ | 3,350 00 | 40 15 | 6 10 | 46 25 | 11 83 | 6 10 | 17 93 | 12 16 | 6 10 | 22 26 | 19 10 | 6 10 | 25 20 |
| Sand Lake | 500 00 | 607 50 | ........ | 1,107 50 | 35 71 | 3 45 | 39 16 | 8 30 | 3 45 | 11 75 | 5 85 | 3 45 | 9 30 | 10 85 | 3 45 | 14 30 |
| Saranac | 700 00 | 2,075 00 | ........ | 2,775 00 | 23 00 | 4 32 | 27 32 | 11 20 | 4 32 | 15 52 | 8 78 | 4 32 | 13 10 | 13 15 | 4 32 | 17 47 |
| Saugatuck | 900 00 | 1,480 13 | ........ | 2,380 13 | 20 25 | 6 02 | 26 27 | 11 60 | 6 02 | 17 62 | 7 80 | 6 02 | 13 82 | 12 86 | 6 02 | 18 88 |
| Schoolcraft | 1,000 00 | 1,890 00 | ........ | 2,890 00 | 27 23 | 8 71 | 35 94 | 14 47 | 8 71 | 23 18 | 11 10 | 8 71 | 19 81 | 15 96 | 8 71 | 24 67 |
| Scottville | 650 00 | 2,250 00 | 300 00 | 3,200 00 | 26 28 | 6 71 | 32 99 | 10 20 | 6 71 | 16 91 | 10 42 | 6 71 | 17 13 | 14 23 | 6 71 | 20 94 |
| Sebewaing | 800 00 | 2,148 00 | ........ | 2,948 00 | 28 57 | 2 38 | 30 95 | 8 00 | 2 38 | 10 98 | 9 30 | 2 38 | 11 68 | 11 09 | 2 38 | 13 47 |
| Shelby | 850 00 | 3,016 25 | ........ | 3,866 25 | 19 42 | 7 55 | 26 97 | 13 18 | 7 55 | 20 73 | 8 53 | 7 55 | 16 08 | 12 63 | 7 55 | 20 18 |
| Shepherd | 700 00 | 1,620 00 | ........ | 2,320 00 | 15 60 | 4 78 | 20 38 | 14 82 | 4 78 | 19 60 | 8 51 | 4 78 | 13 29 | 11 48 | 4 78 | 16 26 |
| Sheridan | 585 00 | 955 00 | ........ | 1,540 00 | 22 50 | 6 17 | 28 67 | 13 91 | 6 17 | 20 08 | 7 70 | 6 17 | 13 87 | 13 63 | 6 17 | 19 80 |
| Sherman | 540 00 | 1,080 00 | ........ | 1,620 00 | 19 28 | 63 | 19 91 | 14 11 | 63 | 14 74 | 7 00 | 63 | 7 63 | 10 95 | 63 | 11 58 |
| Sherwood | 540 00 | 1,080 00 | ........ | 1,620 00 | 38 57 | 7 12 | 45 69 | 10 80 | 7 12 | 17 92 | 12 27 | 7 12 | 19 39 | 15 00 | 7 12 | 22 12 |
| †Sibley | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ | ........ |
| South Frankfort | 700 00 | 1,075 00 | ........ | 1,775 00 | 25 00 | 23 | 25 23 | 8 14 | 23 | 8 37 | 5 51 | 23 | 5 74 | 9 75 | 23 | 9 98 |
| South Lyon | 600 00 | 1,330 00 | ........ | 1,930 00 | 19 82 | 6 63 | 26 45 | 10 62 | 6 63 | 17 25 | 8 83 | 6 63 | 15 46 | 12 14 | 6 63 | 18 77 |
| Sparta | 850 00 | 2,825 00 | 350 00 | 4,025 00 | 23 33 | 9 31 | 32 04 | 13 38 | 9 31 | 22 69 | 12 11 | 9 31 | 21 42 | 14 80 | 9 31 | 24 11 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Spring Lake | 738 89 | 1,428 50 | ...... | 2,167 39 | 73 88 | 9 70 | 83 58 | 11 81 | 9 70 | 21 51 | 9 91 | 9 70 | 19 61 | 14 65 | 9 70 | 24 35 |
| Springport | 650 00 | 1,500 00 | ...... | 2,150 00 | 26 25 | 6 69 | 32 94 | 18 75 | 6 69 | 25 44 | 15 10 | 6 69 | 21 79 | 19 91 | 6 69 | 26 60 |
| Stambaugh | 800 00 | 5,811 63 | 500 00 | 7,111 63 | 52 90 | 26 88 | 79 78 | 18 97 | 26 88 | 45 85 | 13 78 | 26 88 | 40 66 | 18 97 | 26 88 | 45 85 |
| †Stephenson | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Stevensville | 630 00 | 1,440 00 | ...... | 2,070 00 | 49 50 | 3 52 | 53 02 | 6 66 | 3 52 | 10 18 | 9 11 | 3 52 | 12 63 | 13 53 | 3 52 | 17 05 |
| Stockbridge | 800 00 | 1,525 00 | ...... | 2,325 00 | 22 78 | 4 83 | 27 61 | 8 72 | 4 83 | 13 55 | 9 70 | 4 83 | 14 53 | 12 04 | 4 83 | 16 87 |
| Sunfield | 570 00 | 1,140 00 | ...... | 1,710 00 | 23 75 | 5 62 | 29 37 | 9 27 | 5 62 | 14 89 | 7 09 | 5 62 | 12 71 | 13 36 | 5 62 | 18 98 |
| Sutton's Bay | 540 00 | 630 00 | ...... | 1,170 00 | 25 71 | 4 16 | 29 87 | 11 67 | 4 16 | 15 83 | 11 66 | 4 16 | 15 82 | 15 60 | 4 16 | 19 76 |
| Tecumseh | 785 70 | 5,579 30 | 400 00 | 6,765 00 | 19 51 | 6 38 | 25 89 | 12 98 | 6 38 | 19 36 | 12 92 | 6 38 | 19 30 | 14 77 | 6 38 | 21 15 |
| Tekonsha | 600 00 | 1,346 50 | ...... | 1,946 50 | 25 23 | 15 84 | 41 07 | 10 86 | 15 84 | 26 70 | 8 50 | 15 84 | 24 34 | 13 71 | 15 84 | 29 55 |
| Thompsonville | 675 00 | 2,022 00 | ...... | 2,697 00 | 34 06 | 3 09 | 37 15 | 11 70 | 3 09 | 14 79 | 8 12 | 3 09 | 11 21 | 12 72 | 3 09 | 15 81 |
| Three Oaks | 900 00 | 2,272 00 | 135 00 | 3,307 00 | 24 05 | 3 83 | 27 88 | 8 45 | 3 83 | 12 28 | 9 20 | 3 83 | 13 03 | 11 98 | 3 83 | 15 81 |
| Trenton | 750 00 | 2,460 00 | ...... | 3,210 00 | 81 25 | 9 54 | 90 79 | 10 81 | 9 54 | 20 35 | 8 68 | 9 54 | 18 22 | 11 38 | 9 54 | 20 92 |
| Tustin | 540 00 | 990 00 | ...... | 1,530 00 | 25 71 | 9 89 | 35 60 | 11 25 | 9 89 | 21 14 | 8 51 | 9 89 | 18 40 | 12 96 | 9 89 | 22 85 |
| Twining | 550 00 | 670 00 | ...... | 1,220 00 | 20 37 | 2 37 | 22 74 | 6 40 | 2 37 | 8 77 | 4 37 | 2 37 | 6 74 | 7 77 | 2 37 | 10 14 |
| †Ubly | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Union City | 1,000 00 | 4,700 00 | ...... | 5,700 00 | 27 16 | 6 71 | 33 87 | 13 08 | 6 71 | 19 79 | 16 00 | 6 71 | 22 71 | 19 00 | 6 71 | 25 71 |
| Unionville | 650 00 | 1,020 00 | 30 00 | 1,700 00 | 16 58 | 3 04 | 19 62 | 7 20 | 3 04 | 10 24 | 4 73 | 3 04 | 7 77 | 8 17 | 3 04 | 11 21 |
| Utica | 800 00 | 1,400 00 | ...... | 2,200 00 | 38 33 | 4 78 | 43 11 | 7 78 | 4 78 | 12 56 | 10 61 | 4 78 | 15 39 | 15 60 | 4 78 | 20 38 |
| Vandalia | 585 00 | 1,165 00 | ...... | 1,750 00 | 18 90 | 6 48 | 25 38 | 10 55 | 6 48 | 17 03 | 9 27 | 6 48 | 15 75 | 13 77 | 6 48 | 20 25 |
| †Vanderbilt | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Vassar | 1,100 00 | 4,025 00 | 400 00 | 5,525 00 | 26 12 | 5 05 | 31 17 | 16 10 | 5 05 | 21 15 | 12 64 | 5 05 | 17 69 | 16 74 | 5 06 | 21 79 |
| Vermontville | 750 00 | 2,137 50 | ...... | 2,887 50 | 23 60 | 10 10 | 33 70 | 14 25 | 10 10 | 24 35 | 11 67 | 10 10 | 21 77 | 16 88 | 10 10 | 26 98 |
| Vernon | 600 00 | 900 00 | ...... | 1,500 00 | 24 00 | 7 42 | 31 42 | 16 07 | 7 42 | 23 49 | 14 06 | 7 42 | 21 48 | 17 30 | 7 42 | 24 72 |
| Vicksburg | 850 00 | 2,853 00 | ...... | 3,703 00 | 21 65 | 4 56 | 26 16 | 10 75 | 4 56 | 15 31 | 13 42 | 4 56 | 17 98 | 15 36 | 4 56 | 19 92 |
| Wakefield | 900 00 | 7,250 00 | ...... | 8,150 00 | 46 16 | 5 24 | 51 40 | 15 93 | 5 24 | 21 17 | 14 67 | 5 24 | 19 91 | 17 09 | 5 24 | 22 33 |
| Waldron | 550 00 | 568 00 | ...... | 1,118 00 | 22 00 | 2 56 | 24 56 | 9 00 | 2 56 | 11 56 | 7 37 | 2 56 | 9 93 | 11 77 | 2 56 | 14 33 |
| Warren | 420 00 | 270 00 | ...... | 690 00 | ...... | ...... | ...... | 15 00 | 1 28 | 16 28 | 6 75 | 1 28 | 8 03 | 10 14 | 1 28 | 11 42 |
| Watervliet | 900 00 | 2,205 00 | ...... | 3,105 00 | 25 00 | 5 72 | 30 72 | 7 35 | 5 72 | 13 07 | 13 26 | 5 72 | 18 98 | 13 50 | 5 72 | 19 22 |
| Wayland | 720 00 | 1,254 00 | ...... | 1,974 00 | 11 57 | 6 01 | 17 58 | 7 50 | 6 01 | 13 51 | 4 50 | 6 01 | 10 51 | 8 73 | 6 01 | 14 74 |
| Wayne | 1,200 00 | 3,550 00 | ...... | 4,750 00 | 28 55 | 4 37 | 32 92 | 11 95 | 4 37 | 16 32 | 10 35 | 4 37 | 14 72 | 15 37 | 4 37 | 19 74 |
| Webberville | 540 00 | 540 00 | ...... | 1,080 00 | 16 87 | 3 16 | 20 03 | 7 50 | 3 16 | 10 66 | 7 50 | 3 16 | 10 66 | 10 40 | 3 16 | 13 56 |
| †Westphalia | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| White Cloud | 585 00 | 1,141 75 | ...... | 1,726 75 | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | 7 35 | 2 30 | 9 65 |
| Whitehall | 850 00 | 3,256 50 | 111 00 | 4,217 50 | 16 91 | 3 97 | 20 88 | 8 99 | 3 97 | 12 96 | 13 78 | 3 97 | 17 75 | 12 51 | 3 97 | 16 48 |
| White Pigeon | 800 00 | 1,730 00 | ...... | 2,530 00 | 22 20 | 6 37 | 28 57 | 12 37 | 6 37 | 18 74 | 11 72 | 6 37 | 18 09 | 16 22 | 6 37 | 22 59 |
| Williamston | 900 00 | 3,892 00 | 200 00 | 4,992 00 | 24 07 | 9 13 | 33 20 | 13 88 | 9 13 | 23 01 | 13 13 | 9 13 | 22 26 | 16 64 | 9 13 | 25 77 |
| Wolverine | 630 00 | 1,790 00 | ...... | 2,420 00 | 42 61 | 6 97 | 49 58 | 14 12 | 6 97 | 21 09 | 9 73 | 6 97 | 16 70 | 16 35 | 6 97 | 23 32 |
| Woodland | 495 00 | 630 00 | ...... | 1,125 00 | 17 08 | 6 11 | 24 10 | 22 50 | 6 11 | 28 92 | 8 08 | 6 11 | 14 50 | 13 88 | 6 11 | 19 99 |
| †Woodmere | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Zeeland | 800 00 | 3,258 00 | 500 00 | 4,558 00 | 35 80 | 6 74 | 42 54 | 10 00 | 6 74 | 16 74 | 6 59 | 6 74 | 13 33 | 18 76 | 6 74 | 25 50 |

---

¶ Report included with Calumet.
† Not legally graded.

## TABLE XX.

*Special report of the superintendents of city schools.*

| Incorporated cities. | No. of teachers in school, including superintendent and special teachers. | No. of special teachers employed. | No. of instructors in manual training. | No. of instructors in penmanship. | No. of instructors in drawing. | No. of instructors in music. | No. of instructors in kindergarten. | No. of instructors in commercial course. | No. of instructors in physical culture. | How many of your teachers of music, drawing, and kindergarten are qualified according to Act 24 of 1905? | How many other special teachers are holders of certificates other than city certificates? | If not, how many have been granted city certificates? | Are all regular teachers holders of legal certificates of qualification? | No. holding certificates granted upon examination or indorsed by the State board of education. | No. holding western normal school certificates. | No. holding northern normal school certificates. | No. holding central normal school certificates. | No. holding State normal college certificates. | No. holding certificates granted by State university under provisions of sec. 4805 of compiled laws. | No. holding college certificates granted according to sec. 4805 of compiled laws. | No. holding city certificates of first grade. | No. holding city certificates of second grade. | No. holding city certificates of third grade. | No. holding county certificates. | Portion of superintendent's time given to supervision. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrian | 50 | 5 | 2 | .... | 1 | 1 | .... | .... | 1 | 1 | .... | 4 | Yes | .... | .... | .... | .... | 15 | 4 | 3 | 4 | 6 | 10 | 3 | All |
| Albion | 30 | 2 | .5 | .... | .5 | 1 | .... | .... | .... | 2 | .... | .... | Yes | .... | 1 | .... | 4 | 11 | 3 | 4 | .... | .... | 1 | 4 | 5-6 |
| Alma | 18 | 2 | .... | .... | .5 | .5 | 1 | .... | .... | .... | 1 | .... | Yes | .... | .... | .... | 2 | 5 | 3 | 1 | .... | .... | .... | 6 | 3-4 |
| Alpena | 49 | 3 | .... | .5 | .5 | 1 | .... | 1 | .... | .... | .... | 3 | Yes | .... | .... | .... | .... | .... | .... | .... | 7 | 16 | 23 | .... | All |
| Ann Arbor | 76 | 7 | 3 | .... | 1 | 1 | .... | 2 | .... | .... | .... | 7 | Yes | .... | .... | .... | .... | .... | .... | .... | 21 | 22 | 26 | .... | All |
| Au Gres | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Au Sable | 10 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | Yes | 1 | .... | .... | .... | 1 | .... | .... | .... | .... | .... | 8 | 1-3 |
| Bad Axe | 12 | 1 | .... | .... | .... | 1 | .... | .... | .... | 1 | .... | .... | Yes | .... | .... | .... | .... | 7 | .... | .... | .... | .... | .... | 4 | 1-2 |
| Battle Creek | 110 | 5 | 3 | .... | 1 | 1 | .... | .... | .... | .... | .... | .... | Yes | .... | .... | .... | 2 | 13 | 9 | .... | 12 | 54 | 1 | 19 | All |
| Bay City | 200 | 13 | 3 | 1 | 1 | 1 | 3 | 4 | .... | 5 | .... | .... | Yes | .... | .... | .... | 2 | 6 | 16 | .... | 149 | .... | 18 | 4 | All |
| Beaverton | 8 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | Yes | .... | .... | .... | 1 | 1 | .... | .... | .... | .... | .... | 6 | 1-20 |
| Belding | 21 | 4 | .... | .5 | .5 | .5 | 2 | .5 | .... | 3 | .... | .... | Yes | .... | .... | 1 | 1 | 9 | 1 | 1 | 1 | 2 | .... | 2 | 1-2 |
| Benton Harbor | 43 | 1 | .... | .3 | .4 | .3 | .... | .... | .... | .... | 1 | .... | Yes | 1 | 2 | .... | 4 | 19 | 2 | 1 | 1 | 2 | 3 | 7 | All |
| Bessemer | 29 | 1 | .... | .... | .5 | .5 | .... | .... | .... | 1 | .... | .... | Yes | .... | .... | 4 | .... | 4 | 3 | .... | .... | .... | .... | 17 | 1 2 |
| Big Rapids | 28 | 1 | .... | .... | .5 | .5 | .... | .... | .... | .... | .... | 1 | Yes | 1 | .... | .... | .... | 3 | 3 | .... | 3 | 7 | 4 | 6 | 7-8 |
| Cadillac | 46 | 1 | .... | .... | .5 | .5 | .... | .... | .... | 1 | .... | .... | Yes | .... | .... | .... | 8 | 19 | 3 | 2 | 7 | 6 | .... | .... | All |
| Charlevoix | 20 | 2 | .... | .3 | .4 | .3 | .... | 1 | .... | 1 | 1 | .... | Yes | .... | .... | .... | 6 | 2 | 1 | 5 | .... | .... | 1 | 3 | All |
| Charlotte | 26 | 2 | 1 | .... | .5 | .5 | .... | .... | .... | 2 | .... | .... | Yes | .... | .... | 1 | 1 | 14 | 3 | 3 | .... | .... | .... | 2 | 5-7 |
| Cheboygan | 31 | 1 | .... | .... | .5 | .5 | .... | .... | .... | 1 | .... | .... | Yes | 1 | .... | .... | 3 | 4 | 1 | .... | 1 | 6 | 14 | .... | All |
| Clare | 11 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | Yes | .... | .... | .... | 1 | 4 | .... | 1 | .... | .... | .... | 5 | 3-8 |
| Coldwater | 36 | 5 | 1 | .5 | .5 | .5 | 2 | .5 | .... | 1 | 3 | 1 | Yes | 2 | .... | .... | 1 | 13 | .... | 1 | 5 | 8 | .... | 1 | 7-8 |
| Coleman | 9 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | Yes | .... | .... | .... | 1 | .... | .... | .... | .... | .... | .... | 8 | 1-6 |
| Corunna | 14 | 3 | .... | .... | 1 | 1 | 1 | .... | .... | 3 | .... | .... | Yes | .... | .... | .... | .... | 2 | 2 | .... | 3 | .... | 2 | 2 | 2-5 |
| Croswell | 7 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | Yes | 1 | .... | .... | .... | 1 | .... | .... | .... | .... | .... | 5 | 1-3 |
| Crystal Falls | 34 | 3 | .... | .... | .5 | .5 | 2 | .... | .... | 3 | .... | .... | Yes | 2 | .... | 9 | 1 | 3 | 3 | 1 | .... | .... | .... | 12 | 5-6 |
| Detroit | 1,311 | 134 | 30 | .... | 2 | 1 | 92 | 8 | 1 | 126 | 2 | 6 | Yes | 16 | .... | .... | 12 | 151 | 47 | 2 | 919 | .... | .... | 30 | All |
| Dowagiac | 32 | 4 | .... | .5 | .5 | .5 | 2 | .5 | .... | 3 | .... | 1 | Yes | .... | 1 | .... | 2 | 7 | 2 | 2 | 1 | 12 | 1 | .... | 6-7 |
| East Tawas | 11 | 1 | .... | .... | .... | .... | 1 | .... | .... | 1 | .... | .... | Yes | .... | .... | .... | 1 | .... | .... | 3 | .... | .... | .... | 6 | 1-4 |
| Eaton Rapids | 15 | 2 | 1 | .... | .5 | .5 | .... | .... | .... | 1 | 1 | .... | Yes | .... | .... | .... | 3 | 6 | .... | .... | 1 | 2 | 1 | .... | 3-4 |
| Escanaba | 58 | 6 | .... | .5 | .5 | .5 | 4 | .5 | .... | .... | .... | 6 | Yes | 2 | .... | 20 | 1 | 8 | 2 | .... | 9 | 6 | 4 | .... | All |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Flint | 79 | 8 | 1 | 1 | 1 | 1 | 4 | | | | | 8 | Yes | | | | | | | | 9 | 24 | 38 | | All |
| Gadstone | 18 | 1 | | | | | 1 | | | | | 1 | Yes | | | 4 | 1 | 3 | 1 | | 1 | 6 | | 1 | 1-2 |
| Gladwin | 7 | | | | | | | | | | | | Yes | 1 | | | | 2 | 1 | | | | | 3 | 1-5 |
| Grand Haven | 32 | 5 | | | .5 | .5 | 3 | 1 | | 2 | 1 | 2 | Yes | | | | | 6 | 3 | 1 | | 8 | 3 | 6 | 6-7 |
| Grand Ledge, 9 fr. | 11 | 1 | | | | 1 | | | | 1 | | | Yes | | | | 1 | 8 | | | | | | 1 | 1-2 |
| Grand Ledge, 11 fr. | 6 | 1 | | | .5 | .5 | | | | 1 | | | Yes | | | | 1 | 3 | | 1 | | | | 1 | 1-10 |
| Grand Rapids | 446 | 63 | 19 | | 3 | 1 | 36 | 4 | | 18 | | 45 | Yes | | | | | | | | 87 | 198 | 98 | | All |
| Greenville | 23 | 3 | | | 1 | 1 | | 1 | | | | 3 | Yes | | | | 1 | 1 | 1 | 1 | 2 | 6 | 6 | 2 | 1-2 |
| Hancock | 29 | 2 | | | | | | 2 | | | 2 | | Yes | 1 | | 7 | | 7 | 5 | 1 | | | | 6 | 6-7 |
| Harrison | 4 | | | | | | | | | | | | Yes | | | | | | | | | | | 4 | .... |
| Harrisville | 4 | | | | | | | | | | | | Yes | 1 | | | | | | | | | | 3 | 1-6 |
| Hastings | 23 | 3 | .5 | | .5 | 1 | | 1 | | 2 | 1 | | Yes | 1 | 1 | | 2 | 1 | 2 | | | 3 | 2 | 8 | 5-7 |
| Hillsdale | 31 | 4 | .5 | | .5 | 1 | 2 | | | | 2 | 2 | Yes | | | | | 13 | | 1 | 1 | 3 | 9 | | 3-5 |
| Holland | 43 | 2 | | | 1 | 1 | | | | | 2 | | Yes | | 2 | | 1 | 25 | 2 | 3 | | 2 | 3 | 3 | All |
| Hudson | 17 | 1 | | | .5 | .5 | | | | 1 | | | Yes | 1 | | | | 4 | | 1 | | 7 | | 3 | 1-2 |
| Ionia | 31 | 2.2 | | .7 | .6 | .6 | | .3 | | | | | Yes | 1 | | | 3 | 6 | 1 | 3 | 7 | 8 | 2 | | 2-7 |
| Iron Mountain | 65 | 4 | 2 | | | 1 | | 1 | | | | 4 | Yes | | | 6 | | 12 | 2 | 1 | 5 | 31 | 4 | | All |
| Ironwood | 70 | 21 | 3 | | 1 | 1 | 16 | | | | 4 | 17 | Yes | 1 | 4 | 4 | 1 | 6 | 1 | | 4 | 16 | 11 | 1 | All |
| Ishpeming | 78 | 12 | 2 | 1 | 1 | 1 | 5 | 2 | | 7 | 2 | 3 | Yes | | | 15 | | 6 | 1 | | 10 | 12 | 22 | | All |
| Jackson | 103 | 2 | 1 | | .5 | .5 | | | | | | 2 | Yes | | | | | | | | 15 | 32 | 54 | | All |
| Kalamazoo | 156 | 31 | 9 | | 2 | 2 | 16 | | 2 | 28 | 3 | | Yes | 2 | 2 | 3 | | 22 | 8 | 14 | 7 | 41 | 23 | 3 | All |
| Lansing | 95 | 5 | 2 | | 1 | 1 | | 1 | | | | 5 | Yes | | | | 1 | 23 | 5 | 5 | 43 | 12 | | 1 | All |
| Lapeer | 21 | 1 | | | .5 | .5 | | | | 1 | | | Yes | | | | 1 | 8 | 1 | | | 8 | | 2 | 2-3 |
| Ludington | 48 | 3 | 2 | | .5 | .5 | | | | | 1 | 2 | Yes | | | | 3 | 18 | 3 | 2 | 1 | 12 | 6 | | 9-10 |
| Mackinac Island | 4 | | | | | | | | | | | | Yes | | | | | | | | | | | 4 | 1-8 |
| Manistee | 74 | 15 | 2 | 1 | 1 | 1 | 6 | 4 | | 8 | 3 | 4 | Yes | 1 | | | 2 | 9 | 4 | 2 | 3 | 14 | 24 | | All |
| Manistique | 30 | 5 | | | .5 | .5 | 3 | 1 | | 3 | 1 | 1 | Yes | | | 2 | 2 | 8 | 1 | 3 | 1 | 4 | 4 | | 6-7 |
| Marine City | 18 | 2 | | | .5 | .5 | 1 | | | 1 | 1 | | Yes | | | | 1 | 7 | | | | | | 8 | 3-4 |
| Marquette | 62 | 11 | 4 | | 1 | 1 | 4 | 1 | | | 1 | 10 | Yes | 1 | | 26 | | 1 | 6 | | 4 | 5 | 8 | | All |
| Marshall | 29 | 2 | .5 | | .5 | 1 | | | | 2 | | | Yes | | | | 1 | 7 | 5 | | 4 | 4 | 6 | | 2-3 |
| Mason | 14 | 1 | | | .5 | .5 | | | | 1 | | | Yes | | | | 2 | 9 | | 2 | | | | | 4-7 |
| Menominee | 61 | 9 | 2 | | .5 | .5 | 6 | | | 1 | | 8 | Yes | | | | | | | | 10 | 12 | 30 | | All |
| Midland | | | | | | | | | | | | | | | | | | | | | | | | | |
| Monroe | 23 | 2 | | 1 | .5 | .5 | | | | 1 | | 1 | Yes | | | | | 6 | 3 | 1 | 2 | 4 | 4 | 1 | 3-4 |
| Mt. Clemens | 32 | 4 | | | .5 | .5 | 2 | 1 | | 2 | | 2 | Yes | | | | 1 | 9 | 6 | | 1 | 4 | 9 | 2 | All |
| Mt. Pleasant | 18 | 2 | | | .5 | .5 | | 1 | | 1 | | 1 | Yes | | | | | | 2 | | 14 | | | | 3-4 |
| Muskegon | 126 | 31 | 13 | 1 | 1 | 1 | 10 | 2 | 3 | | | | Yes | 1 | | | | 6 | 1 | | 33 | 57 | 27 | 1 | All |
| Muskegon Heights | 9 | | | | | | | | | | | | Yes | | | | 1 | 1 | | | | | | 7 | 2-5 |
| Negaunee | 36 | 4 | | | .5 | .5 | 2 | 1 | | 2 | | 2 | Yes | | | 23 | | 4 | | 1 | 2 | 1 | 1 | | All |
| Niles | 28 | 1 | | | .5 | .5 | | | | 1 | | | Yes | | | | 2 | 7 | 2 | 3 | | | 7 | 6 | 5-6 |
| North Muskegon | 2 | | | | | | | | | | | | Yes | | | | | | | | | | | 2 | .... |
| Norway | 29 | 2.3 | 1 | .3 | .5 | .5 | | | | 1 | | 1 | Yes | | | 7 | | 4 | 1 | | 4 | 6 | 5 | | All |
| Omer | 4 | | | | | | | | | | | | Yes | | | | | | | | | | | 4 | 1-10 |
| Onaway | 15 | | | | | | | | | | | | Yes | | | | 1 | 1 | | | | | | 13 | 1-2 |
| Owosso | 51 | 3 | .5 | | .5 | 1 | | | 1 | 2 | 1 | | Yes | 1 | | 1 | 2 | 12 | 8 | 1 | | 16 | | 7 | 9-10 |

## TABLE XX.—CONCLUDED.

| Incorporated cities. | No. of teachers in school, including superintendent and special teachers. | No. of special teachers employed. | No. of instructors in manual training. | No. of instructors in penmanship. | No. of instructors in drawing. | No. of instructors in music. | No. of instructors in kindergarten. | No. of instructors in commercial course. | No. of instructors in physical culture. | How many of your teachers of music, drawing, and kindergarten are qualified according to Act 24 of 1905? | How many other special teachers are holders of certificates other than city certificates? | If not, how many have been granted city certificates? | Are all regular teachers holders of legal certificates of qualification? | No. holding certificates granted upon examination or indorsed by the State board of education. | No. holding western normal school certificates. | No. holding northern normal school certificates. | No. holding central normal school certificates. | No. holding State normal college certificates. | No. holding certificates granted by State university under provisions of sec. 4804 of compiled laws. | No. holding college certificates granted according to sec. 4805 of compiled laws. | No. holding city certificates of first grade. | No. holding city certificates of second grade. | No. holding city certificates of third grade. | No. holding county certificates. | Portion of superintendent's time given to supervision. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Petoskey | 33 | 3 |  | .... | 1 | 1 | ..... | 1 | ... | 2 | ....... | 1 | Yes | ....... | .... | ... | 4 | 6 | ........ | 3 | 1 | 9 | 7 | ... | All |
| Pontiac | 55 | 8 | 1 | .... | 1 | 1 | 5 | .... | ... | 6 | ....... | 2 | Yes | ....... | .... | ... | 5 | 9 | 8 | ..... | 2 | 9 | 5 | 9 | All |
| Port Huron | 86 | 3 | ... | .... |  | 1 | ... | 2 | ... | ..... | 2 | 1 | Yes | 1 | .... | ... | 2 | 4 | 11 | 3 | 2 | 25 | 35 | ... | All |
| Rose City | 5 | ... | ... | .... | .... | ... | .... | .... | ... | ..... | ....... | ....... | Yes | ....... | .... | ... | ... | ... | ........ | 1 | ... | .... | ... | 4 | 1-20 |
| Saginaw, E. S. | 160 | 21 | 14 | .5 | 2 | 2 | ..... | 2.5 | ... | ..... | ....... | 21 | Yes | ....... | .... | ... | ... | ... | ........ | ..... | 130 | .... | ... | ... | All |
| Saginaw, W. S. | 82 | 6 | 2 | ..... | 1 | 1 | ..... | 1 | 1 | 2 | 3 | 1 | Yes | ....... | .... | ... | 1 | 6 | 4 | 8 | 54 | .... | ... | 3 | All |
| Sandusky | 6 | ... | ... | .... | .... | ... | .... | .... | ... | ..... | ....... | ....... | Yes | ....... | .... | ... | ... | 3 | ........ | 1 | ... | .... | ... | 2 | 1-5 |
| Sault Ste Marie | 62 | 9 | 2 | .5 | .5 | 1 | 4 | 1 | ... | 6 | 2 | 1 | Yes | 3 | ... | 1 | 11 | 25 | 3 | 3 | 3 | 4 | ... | ... | All |
| South Haven | 27 | 1 | .. | ... | .5 | .5 | .... | ..... | ... | 1 | ....... | ....... | Yes | 1 | 1 | ... | ... | 5 | ........ | 3 | 1 | 8 | 6 | 1 | 5-7 |
| St. Clair | 15 | 2 | .... | .... | .5 | .5 | 1 | ..... | ... | 1 | ....... | 1 | Yes | ....... | .... | ... | ... | 5 | 1 | 1 | 2 | 2 | 2 | ... | 3-7 |
| St Ignace | 11 | 1 | .. | .... | .... | .... | 1 | .... | ... | 1 | ....... | ....... | Yes | 1 | .... | ... | ... | 2 | ........ | ..... | ... | .... | ... | 7 | 1-2 |
| St. Johns | 26 | 2 | .3 | .... | .4 | .3 | .... | 1 | ... | 1 | ....... | ....... | Yes | 1 | .... | ... | 1 | 15 | 1 | ..... | .. | .. | 1 | 6 | 3-4 |
| St Joseph | 34 | 6.5 | .5 | .. | .5 | 1 | 4 | .5 | ... | 2 | 2 | 2 | Yes | 1 | .... | ... | 2 | 11 | 2 | ..... | 3 | 5 | 4 | ... | 9-10 |
| St Louis | 17 | 3 | .. | .... | .5 | .5 | 1 | 1 | ... | ..... | 2 | 1 | Yes | ....... | .... | ... | 2 | 1 | 3 | ..... | 8 | .... | ... | ... | 1-3 |
| Standish | 10 | .... | .... | .... | .... | .... | .... | .... | ... | ..... | ....... | ....... | Yes | ....... | .... | ... | ... | 5 | ........ | ..... | ... | .... | ... | 5 | 1-3 |
| Stanton | 8 | 2 | .... | .... | .... | .... | 1 | 1 | ... | ..... | ....... | ....... | Yes | 1 | .... | ... | ... | 4 | ........ | ..... | ... | 1 | ... | 2 | 1-2 |
| Sturgis | 18 | .... | .... | .... | .5 | .5 | 1 | .... | ... | 2 | ....... | ....... | Yes | 1 | .... | 1 | 2 | 1 | 1 | 3 | 2 | .... | ... | 5 | 1-2 |
| Tawas City | 8 | .... | .... | .... | .... | .... | .... | .... | ... | ..... | ....... | ....... | Yes | 1 | .... | ... | 1 | ... | 1 | ..... | ... | .... | ... | 5 | 2-5 |
| Three Rivers | 29 | 6.3 | .3 | . | .5 | .5 | 4 | 1 | ... | ..... | ....... | ....... | Yes | ....... | .... | ... | ... | ... | ........ | ..... | 10 | 10 | 9 | ... | 7-8 |
| Traverse City | 62 | 10 | .3 | .3 | .4 | 1 | 7 | 1 | ... | 9 | ....... | 1 | Yes | 1 | 2 | ... | 11 | 20 | 3 | 4 | 2 | 6 | 3 | ... | All |
| West Branch | 9 | ... | .... | .... | .... | .... | .... | .... | ... | ..... | ....... | ....... | Yes | ....... | .... | ... | ... | ... | ........ | ..... | ... | .... | ... | 9 | 1-10 |
| Wyandotte | 32 | 5 | ... | .... | 1 | 1 | 3 | .... | ... | 5 | ....... | ....... | Yes | 4 | .... | ... | ... | 12 | 2 | 3 | 3 | 3 | ... | ... | All |
| Yale | 10 | .... | .... | .... | .... | .... | .... | .... | ... | ..... | ....... | ....... | Yes | ....... | .... | ... | ... | 2 | ........ | 1 | ... | .... | ... | 7 | 1-6 |
| Ypsilanti | 33 | 3 | 1.5 | .... | .5 | 1 | .... | .... | ... | 2 | 1 | ....... | Yes | ....... | .... | ... | ... | 21 | 5 | ..... | 1 | 2 | ... | 1 | 6-7 |

# TABLE XXI.

*Receipts and disbursements at teachers' institutes for the calender year 1906.*

| Counties. | Location. | Date. | Receipts. |  | Disbursements. |  |  |  |
|---|---|---|---|---|---|---|---|---|
|  |  |  | County fund. | State fund. | Compensation of instructors and local committee. | Expenses of instructors. | Other expenses. | Totals. |
| Totals |  |  | $10,509 08 | $2,993 30 | $10,668 19 | $1,410 05 | $1,424 14 | $13,502 38 |
| Alger | With Marquette | §June 25-Aug 3 | $40 35 | $100 00 | $140 35 |  |  | $140 35 |
| Allegan | With Kalamazoo | *June 25-Aug. 3 | 65 06 |  | 56 00 |  | $9 06 | 65 06 |
| Alpena | Alpena | Aug. 20-24 | 46 00 | 90 86 | 85 00 | $46 86 | 5 00 | 136 86 |
| Antrim | Mancelona | July 23-Aug. 3 | 65 06 | 64 94 | 115 00 | 15 00 |  | 130 00 |
| Arenac | Standish | Feb. 23-24 | 39 50 | 34 56 | 47 00 | 20 31 | 6 75 | 74 06 |
|  | Standish | Nov. 1-2 | 43 50 | 23 03 | 47 00 | 14 78 | 4 75 | 66 53 |
| Baraga | With Marquette | §June 25-Aug. 3 | 12 00 | 25 00 | 37 00 |  |  | 37 00 |
| Barry | With Kalamazoo | *June 25-Aug. 3 | 77 10 |  | 68 00 |  | 9 10 | 77 10 |
| Bay | Bay City | Aug 27-31 | 136 51 |  | 80 00 | 18 63 | 37 88 | 136 51 |
| Benzie | Frankfort | Mar. 21-23 | 76 50 | 26 85 | 68 00 | 31 35 | 4 00 | 103 35 |
| Branch | Coldwater | Jan. 22-27 | 115 15 |  | 77 00 | 11 13 | 27 02 | 115 15 |
|  | With Kalamazoo | *June 25-Aug. 3 | 94 03 |  | 86 00 |  | 8 03 | 94 03 |
|  | Coldwater | Aug. 31-Sept. 1 | 39 38 |  | 22 00 | 8 63 | 8 75 | 39 38 |
| Calhoun | Penfield, Tekonsha, Rice Creek | Feb. 10, 17, 24 | 48 10 |  | 36 00 | 2 85 | 9 25 | 48 10 |
|  | With Kalamazoo | *June 25-Aug. 3 | 71 00 |  | 71 00 |  |  | 71 00 |
| Cass | With Kalamazoo | *June 25-Aug 3 | 75 10 |  | 68 00 |  | 7 10 | 75 10 |
|  | Dowagiac | May 19 | 32 50 | 23 78 | 37 00 | 15 78 | 3 50 | 56 28 |
| Charlevoix | Charlevoix | July 16-Aug. 3 | 99 00 | 96 32 | 170 00 | 20 42 | 4 90 | 195 32 |
| Chippewa | Sault Ste. Marie | Mar. 5-7 | 102 00 | 25 39 | 58 00 | 64 39 | 5 00 | 127 39 |
| Clare | With Isabella | ‡June 25-Aug 3 |  | 46 80 | 45 00 | 1 80 |  | 46 80 |
|  | Clare | Sept. 20-21 | 53 86 |  | 37 00 | 1 80 | 15 06 | 53 86 |
| Clinton | St. Johns | July 9-Aug. 3 | 219 43 | 60 64 | 265 00 | 3 72 | 11 35 | 280 07 |
| Crawford | Grayling | Sept. 27-29 | 37 00 | 44 48 | 58 00 | 11 83 | 11 65 | 81 48 |
| Delta | Escanaba | Nov. 6-9 | 122 60 | 33 50 | 98 00 | 43 35 | 14 75 | 156 10 |
| Eaton | Charlotte | Aug. 27-31 | 173 07 |  | 125 00 | 26 02 | 22 05 | 173 07 |
| Emmet | Petoskey | Sept. 19-23 | 194 21 |  | 119 00 | 65 71 | 9 50 | 194 21 |
| Genesee | Flint | June 25-July 6 | 250 18 |  | 215 00 | 15 43 | 19 75 | 250 18 |
| Gladwin | Gladwin | Feb. 22-24 | 72 50 | 26 66 | 68 00 | 20 91 | 10 25 | 99 16 |
|  | With Isabella | ‡June 25-Aug 3 |  | 78 31 | 70 00 |  | 8 31 | 78 31 |
| Gratiot | Ithaca | Jan. 18-20 | 89 89 |  | 63 00 | 2 02 | 24 87 | 89 89 |
|  | With Isabella | ‡June 25-Aug. 3 | 82 20 | 50 00 | 117 00 |  | 15 20 | 132 20 |

† The counties of Jackson, Lenawee, Livingston, Monroe, Oakland, Washtenaw, and Wayne united in a summer institute at the Michigan State Normal College.

‡ The counties of Clare, Gladwin, Gratiot, Isabella, Midland, Montcalm, Osceola united in a summer institute at the Central Michigan Normal School.

§ The counties of Alger, Baraga and Marquette united in a summer institute at the Northern State Normal School.

* The counties of Allegan, Barry, Branch, Calhoun, Cass, Kalamazoo, St. Joseph, and Van Buren united in a summer institute at the Western State Normal School.

## TABLE XXI.—CONCLUDED.

| Counties. | Location. | Date. | Receipts. | | Disbursements. | | | |
|---|---|---|---|---|---|---|---|---|
| | | | County fund. | State fund. | Compensation of instructors and local committee. | Expenses of instructors. | Other expenses. | Totals |
| Hillsdale | Hillsdale | July 30-Aug. 8 | $253 86 | ........ | $184 00 | $21 43 | $48 43 | $253 86 |
| Houghton and Keweenaw | Houghton | Oct. 5-6 | 221 48 | ........ | 126 00 | 60 73 | 34 75 | 221 48 |
| Huron | Bad Axe | Nov. 8-10 | 144 30 | ........ | 91 00 | 35 70 | 17 60 | 144 30 |
| Ingham | Mason | July 9-Aug. 3 | 221 64 | $100 00 | 285 00 | 8 84 | 27 80 | 321 64 |
| Ionia | Saranac | Mar. 2-3 | 35 49 | ........ | 21 00 | 6 28 | 8 21 | 35 49 |
| | Ionia | July 9-Aug 3 | 225 82 | 40 00 | 250 00 | ........ | 15 82 | 265 82 |
| Iosco | Tawas City | July 23-Aug. 3 | 42 00 | 79 52 | 115 00 | 5 62 | 90 | 121 52 |
| Iron | Crystal Falls | Nov. 8-10 | 41 50 | 77 13 | 91 00 | 25 63 | 2 00 | 118 63 |
| Isabella | Mt. Pleasant | ‡June 25-Aug. 3 | 86 00 | ........ | 85 00 | ........ | 1 00 | 86 00 |
| Jackson | Concord | Mar. 2-3 | 30 14 | ........ | 20 00 | 10 14 | ........ | 30 14 |
| | With Washtenaw | †June 25-Aug. 3 | 139 98 | ........ | 95 00 | ........ | 44 98 | 139 98 |
| | Hanover | Nov. 8-9 | 26 47 | ........ | 14 00 | 5 92 | 6 55 | 26 47 |
| | Jackson | Dec. 10-14 | 119 94 | ........ | 72 00 | 20 44 | 27 50 | 119 94 |
| Kalamazoo | Kalamazoo | *June 25-Aug. 3 | 84 00 | ........ | 80 00 | ........ | 4 00 | 84 00 |
| Kalkaska | Kalkaska | July 16-Aug. 3 | 91 50 | 100 00 | 155 00 | 8 76 | 27 74 | 191 50 |
| Kent | Grand Rapids | Jan. 16 | 55 00 | ........ | 55 00 | ........ | ........ | 55 00 |
| | Grand Rapids | Feb. 12 | 55 00 | ........ | 55 00 | ........ | ........ | 55 00 |
| | Grand Rapids | April 12 | 30 00 | ........ | 30 00 | ........ | ........ | 30 00 |
| | Caledonia | April 13 | 86 29 | ........ | 59 00 | 6 79 | 20 50 | 86 29 |
| | Grand Rapids | Aug. 13-17 | 194 12 | ........ | 120 00 | 45 94 | 28 18 | 194 12 |
| Keweenaw | With Houghton | ........ | ........ | ........ | ........ | ........ | ........ | ........ |
| Lake | Luther | July 30-Aug. 3 | 74 00 | 39 68 | 80 00 | 23 88 | 9 80 | 113 68 |
| Lapeer | Lapeer | Aug. 23-25 | 106 81 | ........ | 63 00 | 25 61 | 18 20 | 106 81 |
| | Lapeer, Almont, Hadley | Nov. 19-23 | 74 59 | ........ | 60 00 | 6 74 | 7 85 | 74 59 |
| Leelanau | Maple City | Sept. 24-28 | 39 50 | 83 95 | 85 00 | 27 85 | 10 60 | 123 45 |
| Lenawee | Adrian | Mar. 23-24 | 216 45 | ........ | 141 00 | 38 25 | 37 20 | 216 45 |
| | With Washtenaw | †June 25-Aug. 3 | 146 70 | ........ | 95 00 | ........ | 51 70 | 146 70 |
| Livingston | With Washtenaw | †June 25-Aug. 3 | 128 25 | 10 00 | 105 00 | ........ | 33 25 | 138 25 |
| Macomb | New Baltimore | July 9-Aug. 3 | 173 50 | 100 00 | 200 00 | ........ | 13 50 | 273 50 |
| Manistee | Manistee | Mar. 1-3 | 96 00 | 21 88 | 71 00 | 34 53 | 12 35 | 117 88 |
| | Manistee | July 23-Aug. 3 | 32 50 | 99 30 | 120 00 | ........ | 11 80 | 131 80 |
| Marquette | Ishpeming | April 26-27 | 54 25 | ........ | ........ | ........ | 54 25 | 54 25 |
| | Marquette | §June 25-Aug. 3 | 45 00 | 25 00 | 70 00 | ........ | ........ | 70 00 |
| Mason | Ludington | July 10-Aug. 3 | 102 50 | 99 68 | 165 00 | 17 18 | 20 00 | 202 18 |
| Menominee | Menominee | July 23-Aug. 8 | 123 50 | 100 00 | 208 00 | 11 00 | 4 50 | 223 50 |
| Midland | With Isabella | ‡June 25-Aug. 3 | 51 18 | ........ | 45 00 | ........ | 6 18 | 51 18 |
| | Midland | Dec. 14-15 | 20 32 | 47 68 | 47 00 | 10 00 | 11 00 | 68 00 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Missaukee | Lake City | Dec. 19–21 | 88 23 | .......... | 71 00 | 14 73 | 2 50 | 88 23 |
| Monroe | With Washtenaw | †June 25–Aug. 3 | 56 70 | 65 00 | 85 00 | .......... | 36 70 | 121 70 |
| Montcalm | With Isabella | ‡June 25–Aug. 3 | 30 45 | .......... | 25 00 | 5 45 | .......... | 30 45 |
| Montmorency | Atlanta | July 31–Aug. 3 | 28 50 | 94 36 | 85 00 | 37 22 | 64 | 122 86 |
| Muskegon | Muskegon | April 11 | 17 50 | .......... | 17 50 | .......... | .......... | 17 50 |
| | Muskegon | July 30–Aug. 8 | 211 04 | 75 55 | 224 00 | 46 55 | 16 04 | 286 59 |
| Newaygo | Fremont | July 23–Aug. 3 | 46 00 | 84 00 | 125 00 | .......... | 5 00 | 130 00 |
| Oakland | With Washtenaw | †June 25–Aug. 3 | 130 77 | .......... | 95 00 | .......... | 35 77 | 130 77 |
| Oceana | Circuit | Mar. 5–10 | 61 00 | 10 50 | 56 00 | 5 00 | 10 50 | 71 50 |
| Ogemaw | West Branch | Dec. 20–22 | 39 00 | 61 06 | 68 00 | 24 06 | 8 00 | 100 06 |
| Ontonagon | Ontonagon | Dec. 7–8 | 104 33 | .......... | 69 00 | 18 48 | 16 85 | 104 33 |
| Osceola | With Isabella | ‡June 25–Aug. 3 | 32 92 | 50 00 | 75 00 | .......... | 7 92 | 82 92 |
| Oscoda | Mio | April 16–20 | 3 50 | 100 00 | 71 34 | 30 16 | 2 00 | 103 50 |
| Otsego | Gaylord | July 23–Aug. 3 | 25 00 | 95 00 | 120 00 | .......... | .......... | 120 00 |
| Ottawa | Holland | Mar. 9–10 | 92 98 | .......... | 59 00 | 23 97 | 10 01 | 92 98 |
| | Grand Haven | Mar. 10–17 | 92 59 | .......... | 59 00 | 19 84 | 13 75 | 92 59 |
| Presque Isle | Onaway | Dec. 3–7 | 51 25 | 91 44 | 85 00 | 37 27 | 20 42 | 142 69 |
| Roscommon | Roscommon | Aug. 27–31 | 30 00 | 70 76 | 80 00 | 19 76 | 1 00 | 100 76 |
| Saginaw | Saginaw | Feb. 12–23 | 136 22 | .......... | 60 00 | 36 37 | 39 85 | 136 22 |
| St. Clair | Port Huron | July 9–Aug. 3 | 260 50 | 9 75 | 250 00 | 6 00 | 14 25 | 270 25 |
| St. Joseph | With Kalamazoo | *June 25–Aug. 3 | 101 36 | .......... | 95 00 | .......... | 6 36 | 101 36 |
| Sanilac | Deckerville | Feb. 5–10 | 114 10 | .......... | 77 00 | 18 25 | 18 85 | 114 10 |
| | Marlette | Feb. 26–Mar. 3 | 128 58 | .......... | 82 00 | 16 38 | 30 20 | 128 58 |
| | Sandusky | Aug. 20–24 | 152 48 | .......... | 115 00 | 33 98 | 3 50 | 152 48 |
| | Sandusky | Dec. 3–7 | 93 83 | .......... | 60 00 | 14 23 | 19 60 | 93 83 |
| Shiawassee | Owosso | July 19–27 | 178 72 | 80 81 | 225 00 | 3 72 | 30 81 | 259 53 |
| Tuscola | Vassar | Aug. 27–31 | 157 09 | .......... | 115 00 | 19 73 | 22 36 | 157 09 |
| Van Buren | With Kalamazoo | *June 25–Aug. 3 | 94 55 | .......... | 89 00 | .......... | 5 55 | 94 55 |
| Washtenaw | Ypsilanti | †June 25–Aug. 3 | 110 00 | .......... | 95 00 | .......... | 15 00 | 110 00 |
| Wayne | Detroit (six lectures) | Jan. 6–Feb. 10 | 225 00 | .......... | 210 00 | .......... | 15 00 | 225 00 |
| | Detroit (six lectures) | Feb. 14–Mar. 21 | 250 00 | .......... | 250 00 | .......... | .......... | 250 00 |
| | Highland Park | Mar. 31 | 58 38 | .......... | 27 00 | 6 75 | 24 63 | 58 38 |
| | With Washtenaw | †June 25–Aug. 3 | 166 25 | .......... | 145 00 | .......... | 21 25 | 166 25 |
| | Detroit (eight lectures) | Nov. 12–24 | 468 91 | .......... | 465 00 | 3 91 | .......... | 468 91 |
| | Detroit (six lectures) | Nov. 14–Dec. 19 | 253 31 | .......... | 240 00 | 13 31 | .......... | 253 31 |
| | Hamtramck | Dec. 8 | 53 18 | .......... | 37 00 | 2 43 | 13 75 | 53 18 |
| Wexford | Circuit | Oct. 29–Nov. 2 | 122 50 | 8 08 | 80 00 | 25 47 | 25 11 | 130 58 |
| All counties | State Institute, Battle Creek | Oct. 25–27 | .......... | 222 05 | 215 00 | 7 05 | .......... | 222 05 |

---

† The counties of Jackson, Lenawee, Livingston, Monroe, Oakland, Washtenaw, and Wayne united in a summer institute at the Michigan State Normal College.
‡ The counties of Clare, Gladwin, Gratiot, Isabella, Midland, Montcalm, Osceola united in a summer institute at the Central Michigan Normal School.
§ The counties of Alger, Baraga and Marquette united in a summer institute at the Northern State Normal School.
* The counties of Allegan, Barry, Branch, Calhoun, Cass, Kalamazoo, St. Joseph, and Van Buren united in a summer institute at the Western State Normal School.

## TABLE XXII.

*Local committees, conductors and instructors at*

| Counties. | Term. | Local committees. |
|---|---|---|
| Alger | 30 days | M. E. Shippey |
| Allegan | 30 days | I. G. Thorpe |
| Alpena | 5 days | J. A. Case |
| Antrim | 10 days | H. M. Coldren |
| Arenac | 2 days | M. E. Osborne |
|  | 2 days | G. W. Glasure |
| Baraga | 30 days | S. O. Clinton |
| Barry | 6 days | J. C. Ketcham |
|  | 2 days | J. C. Ketcham |
|  | 30 days | J. C. Ketcham |
| Bay | 5 days | J. B. Laing |
| Benzie | 3 days | W. E. Daines |
| Branch | 30 days | J. Swain |
|  | 2 days | J. Swain |
|  | 6 days | J. Swain |
| Calhoun | 3 days | F. D. Miller |
|  | 30 days | F. D. Miller |
| Cass | 30 days | W. H. C. Hale |
|  | 1 day | W. H. C. Hale |
| Charlevoix | 15 days | J. H. Milford |
| Chippewa | 3 days | T. R. Easterday |
| Clare | 2 days | E. G. Welch |
|  | 30 days | E. G. Welch |
| Clinton | 20 days | T. Townsend |
| Crawford | 3 days | J. E. Bradley |
| Delta | 4 days | P. R. Legg |
| Eaton | 5 days | J. L. Wagner |
| Emmet | 5 days | R. M. Winston |
| Genesee | 10 days | F. J. Johnson |
| Gladwin | 30 days | F. E. Armstrong |
| Gratiot | 2 days | C. F. Pike |
|  | 30 days | C. F. Pike |
| Hillsdale | 8 days | C. P. Hulce |
| Houghton | 2 days | W. Bath |
| Huron | 3 days | D. Kaercher |
| Ingham | 20 days | A. G. Wilson |
| Ionia | 2 days | H. H. Lowry |
|  | 20 days | H. H. Lowry |
| Iosco | 10 days | J. A. Campbell |
| Iron | 3 days | J. F. Mason |
| Isabella | 30 days | H. A. Graham |
| Jackson | 2 days | T. M. Sattler |
|  | 30 days | T. M. Sattler |
|  | 2 days | T. M. Sattler |
|  | 2 days | T. M. Sattler |
| Kalamazoo | 30 days | J. W. Hazard |
| Kalkaska | 15 days | Irene L. Getty |
| Kent | 1 day | W. H. Elson |
|  | 1 day | W. H. Elson |
|  | 5 days | A. R. Zimmer |
|  | 1 day | W. H. Elson |
|  | 1 day | A. R. Zimmer |
| Keweenaw | 2 days | P. O. Decker |
| Lake | 5 days | E. G. Johnson |
| Lapeer | 3 days | W. F. Laughlin |
|  | 5 days | W. F. Laughlin |
| Leelanau | 5 days | J. O. Duncan |
| Lenawee | 2 days | M. W. Hensel |
|  | 30 days | M. W. Hensel |
| Livingston | 30 days | N. C. Knoolhuizen |
| Macomb | 20 days | O. D. Thompson |
| Manistee | 3 days | H. J. Leighton |
|  | 10 days | H. J. Leighton |

## TABLE XXII.

*teachers' institutes for the calendar year 1903.*

| Conductors. | Instructors. | Instructors. | Instructors. |
|---|---|---|---|
| J. H. Kaye | United with Marquette. | | |
| | United with Kalamazoo. | | |
| F. J. Tooze | F. J. Tooze | Lois B. Wilson. | |
| P. F. McCormick | P. F. McCormick | Margaretha Rodgers. | |
| H. R. Pattengill | H. R. Pattengill | S. B. Laird. | |
| M. E. Osborne | M. E. Osborne | Lois B. Wilson. | |
| J. H. Kaye | United with Marquette. | | |
| H. R. Pattengill | H. R. Pattengill. | | |
| E. Burnham | E. Burnham | Lois B. Wilson. | |
| D. B. Waldo | United with Kalamazoo. | | |
| D. Fall | D. Fall | Alice Kimball. | |
| H. R. Pattengill | H. R. Pattengill | C. T. Grawn. | |
| | United with Kalamazoo. | | |
| R. I. White | R. I. White | L. H. Wood | F. E. Knapp. |
| H. R. Pattengill | H. R. Pattengill | C. M. Perry. | |
| W. J. McKone | W. J. McKone. | | |
| | United with Kalamazoo. | | |
| | United with Kalamazoo. | | |
| F. L. Keeler | F. L. Keeler | W. E. Conkling | Anna Hazard. |
| W. H. Woodley | W. H. Woodley | Jessie M. Hines | J. H. Milford. |
| C. T. Grawn | C. T. Grawn | Margaret E. Wise. | |
| C. S. Larzelere | C. S. Larzelere | R. D. Calkins. | |
| | United with Isabella. | | |
| T. Townsend | T. Townsend | E. D. Palmer | Gertrude Payne.<br>Mrs. L. F. McCreery. |
| H. R. Pattengill | H. R. Pattengill | J. E. Bradley. | |
| C. T. Grawn | C. T. Grawn | F. D. Smith. | |
| W. J. McKone | W. J. McKone | E. Burnham | Lois B. Wilson. |
| F. L. Keeler | F. L. Keeler | Lois B. Wilson | W. N. Ferris.<br>J. G. Monroe. |
| J. H. Harris | J. H. Harris | A. N. Cody | F. J. Johnson.<br>Mrs. Sarah L. Greeley. |
| | United with Isabella. | | |
| C. T. Grawn | C. T. Grawn | Marjorie Kinnan. | |
| | United with Isabella. | | |
| J. K. Osgerby | J. K. Osgerby | S. J. Gier | Maybel Kysor. |
| H. R. Pattengill | H. R. Pattengill | H. E. Krats | J. H. Kaye.<br>F. A. Jeffers. |
| W. J. McKone | W. J. McKone | Fannie I. Allen | E. G. Lancaster. |
| F. Fullerton | F. Fullerton | Ethel C. Crandall | Sarah L. Greeley.<br>A. G. Wilson. |
| H. H. Lowry | Lucy A. Sloan | | |
| C. L. Bemis | C. L. Bemis | Elizabeth Monk | H. H. Lowry. |
| A. A. Ellsworth | E. A. Ellsworth | J. A. Campbell | Cora M. Willsey. |
| W. A. Cheever | W. A. Cheever | J. H. Kaye. | |
| C. T. Grawn | C. S. Larzelere | R. D. Calkins | F. H. Rider.<br>G. F. Roxburgh. |
| T. M. Sattler | D. Fall. | | |
| | United with Washtenaw. | | |
| T. M. Sattler | E. Burnham | H. R. Pattengill. | |
| T. M. Sattler | H. R. Pattengill | L. H. Jones. | |
| D. B. Waldo | W. E. Praeger | Lilly Robinson | Louise Kingsbury<br>J. E. Fox. |
| G. A. McGee | G. A. McGee | Louise Kilbourne. | |
| W. H. Elson | A. E. Winship. | | |
| W. H. Elson | H. H. Powers. | | |
| W. J. McKone | W. J. McKone | Mrs. Nettie Brown | A. F. Benson. |
| W. H. Elson | A. E. Winship. | | |
| H. R. Pattengill | H. R. Pattengill | A. E. Winship | H. Russell. |
| | United with Houghton. | | |
| C. H. Smith | C. H. Smith | Mrs. Nettie Brown. | |
| F. L. Keeler | F. L. Keeler | Florence Fox. | |
| H. R. Pattengill | H. R. Pattengill. | | |
| R. D. Calkins | R. D. Calkins | Lois B. Wilson. | |
| D. B. Waldo | D. B. Waldo | L. H. Jones | Florence Marsh.<br>J. L. Hughes. |
| | United with Washtenaw. | | |
| | United with Washtenaw. | | |
| W. L. Lee | W. L. Lee | Minnie Replogle | O. D. Thompson. |
| S. B. Laird | S. B. Laird | A. H. Smith. | |
| S. W. Baker | S. W. Baker | Jane Petrie | H. J. Leighton. |

## TABLE XXII.—Concluded.

| Counties. | Term. | Local committees. |
|---|---|---|
| Marquette | 2 days | A. E. Sterne |
| | 30 days | A. E. Sterne |
| Mason | 15 days | C. A. Rinehart |
| Menominee | 13 days | J. Hubbard |
| Midland | 30 days | J. H. Mustard |
| | 2 days | J. H. Mustard |
| Missaukee | 2 days | E. S. Hall |
| Monroe | 30 days | A. C. Marvin |
| Montcalm | 30 days | E. D. Straight |
| Montmorency | 5 days | S. H. Knisely |
| Muskegon | 8 days | J. O. Reed |
| | 1 day | J. W. Frost |
| Newaygo | 10 days | Isabella M. Becker |
| Oakland | 30 days | H. S. Elliott |
| Oceana | 5 days | F. Fleming |
| Ogemaw | 3 days | B. Bennett |
| Ontonagon | 2 days | A. C. Adair |
| Osceola | 30 days | G. F. Roxburgh |
| Oscoda | 5 days | B. J. Watters |
| Otsego | 10 days | R. D. Bailey |
| Ottawa | 2 days | C. E. Kelly |
| | 2 days | C. E. Kelly |
| Presque Isle | 5 days | M. H. Nester |
| Roscommon | 5 days | W. M. Coon |
| Saginaw | 1 day | J. C. Nape |
| St. Clair | 20 days | E. T. Blackney |
| St. Joseph | 30 days | L. F. Miller |
| Sanilac | 6 days | C. E. Putney |
| | 5 days | C. E. Putney |
| | 5 days | C. F. Putney |
| | 5 days | C. E. Putney |
| Shiawassee | 15 days | H. E. Slocum |
| Tuscola | 5 days | H. P. Bush |
| Van Buren | 30 days | E. A. Aseltine |
| Washtenaw | 30 days | C. E. Foster |
| Wayne | 6 days | W. C. Martindale |
| | 6 days | W. C. Martindale |
| | 1 day | E. W. Yost |
| | 30 days | E. W. Yost |
| | 8 days | W. C. Martindale |
| | 6 days | W. C. Martindale |
| | 1 day | E. G. VanDeventer |
| Wexford | 5 days | W. H. Faunce |

## TABLE XXII.—CONCLUDED.

| Conductors. | Instructors. | Instructors. | Instructors. |
|---|---|---|---|
| A. E. Sterne | A. E. Sterne. | | |
| J. H. Kaye | J. H. Kaye | W. McCracken | E. L. Parmenter. |
| G. D. Smith | G. D. Smith | Lula B. Chase | C. A. Rinehart. |
| R. H. Kirtland | R. H. Kirtland | Orr Schurts | J. Hubbard. |
| | United with Isabella. | | |
| F. L. Keeler | F. L. Keeler | Lucy A. Sloan. | |
| J. C. Ketcham | J. C. Ketcham | E. Burnham. | |
| | United with Washtenaw. | | |
| | United with Isabella. | | |
| W. D. Henderson | W. D. Henderson | Mrs. Mae K. Bennett. | |
| A. H. Smith | A. H. Smith | C. G. Wade | Florence E. Fox.<br>Ada Smith. |
| J. W. Frost | A. E. Winship. | | |
| W. H. Wentworth | W. H. Wentworth | Carrie L. Carter | Isabella M. Becker. |
| | United with Washtenaw. | | |
| H. R. Pattengill | H. R. Pattengill. | | |
| F. L. Keeler | F. L. Keeler | R D. Calkins. | |
| J. H. Kaye | J. H. Kaye | Frances M. Kelsey. | |
| | United with Isabella. | | |
| A. B. Lightfoot | A. B. Lightfoot | Mrs. Mae K. Bennett. | |
| G. H. Curtis | G. H. Curtis | Goldie Whittaker | R. D. Bailey. |
| C. O. Hoyt | C. O. Hoyt | Florence E. Fox. | |
| R. C. Ford | R. C. Ford | Lois B. Wilson. | |
| M. E. Osborn | M. E. Osborn | Irene L. Getty. | |
| F. L. Keeler | F. L. Keeler | Minnie I. Termaat. | |
| J. C. Nape | Jessie L. Newlin. | | |
| W. F. Lewis | W. F. Lewis | Agatha Dunstall | E. T. Blackney. |
| | United with Kalamazoo. | | |
| F. L. Keeler | F. L. Keeler | F. J. Kemp. | |
| H. R. Pattengill | H. R. Pattengill | Margaret E. Wise. | |
| C. E. Holmes | C. E. Holmes | H. C. Lott | Mrs. Sarah L. Greeley. |
| H. R. Pattengill | H. R. Pattengill. | | |
| J. W. Simmons | J. W. Simmons | Belle J. Walker | Howard E. Slocum. |
| J. K. Osgerby | J. K. Osgerby | W. S. Lister | Reina M. Torrey. |
| | United with Kalamazoo. | | |
| L. H. Jones | N. A. Harvey | D. H. Roberts | S. B. Laird.<br>Julia A. King.<br>J. C. Stone. |
| W. C. Martindale | Catherine E. Dopp. | | |
| W. C. Martindale | B. S. Terry. | | |
| William Harris | C. G. Lancaster | C. O. Hoyt. | |
| L. H. Jones | United with Washtenaw. | | |
| W. C. Martindale | Richard T. Wycke. | | |
| W. C. Martindale | W. A. Rayne. | | |
| E. W. Yost | L. H. Jones | W. D. Henderson. | |
| H. R. Pattengill | H. R. Pattengill | Lucy A. Sloan. | |

## TABLE XXIII.

*Enrollment at teachers' institutes for the calendar year 1906.*

| Counties. | Number of teachers required to supply schools. | Number enrolled. | | | Kinds and grades of certificates held by members. | | | | | | | | | | Number without experience in teaching. | Number having received normal instruction. | Average attendance each half day. | Number of legally qualified teachers in county. | Percentage of teachers in county attending institute. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Men. | Women. | Total. | State. | University. | Normal. | First. | Second. | Third. | Special. | College. | City. | County normal. | | | | | |
| Totals | 15,260 | 2,433 | 13,135 | 15,618 | 94 | 38 | 448 | 115 | 1,763 | 1,634 | 91 | 49 | 182 | 164 | 1,428 | 1,234 | 7,010 | 17,049 | 27 |
| †Alcona | 39 | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | 38 | ...... |
| Alger with Marquette | 57 | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | 60 | ...... |
| Allegan with Kalamazoo | 269 | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | 262 | ...... |
| Alpena | 106 | 4 | 67 | 71 | ...... | ...... | ...... | ...... | 21 | 19 | 1 | ...... | ...... | ...... | 30 | 2 | 57 | 102 | 40 |
| Antrim | 124 | 4 | 20 | 24 | ...... | ...... | ...... | ...... | 7 | 8 | ...... | ...... | ...... | 2 | 10 | ...... | 16 | 138 | 12 |
| Arenac | 60 | 15 | 80 | 95 | 2 | ...... | 5 | 4 | 22 | 12 | ...... | ...... | ...... | 14 | 32 | 8 | 64 | 75 | 78 |
| | | 15 | 59 | 74 | 4 | ...... | 11 | 3 | 23 | 10 | ...... | ...... | ...... | ...... | 19 | 11 | 72 | | 68 |
| Baraga with Marquette | 35 | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | 40 | ...... |
| Barry with Kalamazoo | 191 | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | 227 | ...... |
| Bay | 283 | 20 | 82 | 102 | ...... | ...... | ...... | 4 | 42 | 25 | ...... | ...... | ...... | 4 | 23 | ...... | 69 | 273 | 27 |
| Benzie | 82 | 13 | 67 | 80 | 1 | ...... | 6 | 4 | 26 | 17 | 6 | 1 | ...... | ...... | 17 | 16 | 54 | 103 | 59 |
| †Berrien | 308 | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | 324 | ...... |
| Branch | 190 | 43 | 131 | 174 | 2 | 1 | 14 | 1 | 74 | 49 | 6 | 2 | 4 | 1 | 20 | 39 | 174 | 214 | 72 |
| | | 42 | 98 | 140 | 3 | ...... | 6 | 1 | 52 | 43 | 2 | ...... | 11 | 3 | 36 | 39 | 120 | | 56 |
| Calhoun | 343 | 19 | 49 | 68 | ...... | ...... | 2 | 4 | 25 | 19 | 1 | ...... | 1 | ...... | 4 | 10 | 23 | 402 | 12 |
| | | ‡ 855 | 3,694 | 4,549 | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | | |
| Cass | 162 | 9 | 73 | 84 | 9 | 2 | 2 | ...... | 25 | 19 | 1 | 3 | 15 | ...... | 20 | 25 | ...... | 183 | 41 |
| Charlevoix | 129 | 6 | 44 | 50 | 1 | ...... | ...... | 3 | 14 | 17 | ...... | ...... | ...... | 14 | 10 | 7 | ...... | 174 | 20 |
| †Cheboygan | 113 | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | 103 | ...... |
| Chippewa | 148 | 28 | 103 | 131 | 4 | 1 | 30 | 6 | 27 | 30 | 4 | ...... | 2 | 2 | 18 | 57 | 125 | 162 | 65 |
| Clare | 86 | 16 | 65 | 81 | 4 | ...... | 5 | 2 | 27 | 33 | 1 | 1 | ...... | ...... | 8 | 36 | 78 | 90 | 81 |
| Clinton | 175 | 11 | 56 | 67 | ...... | ...... | 1 | ...... | 17 | 24 | 1 | ...... | ...... | ...... | 20 | 11 | 55 | 176 | 24 |
| Crawford | 41 | 2 | 32 | 34 | ...... | ...... | 2 | 1 | 13 | 14 | 4 | ...... | ...... | ...... | ...... | 7 | 31 | 27 | 126 |
| Delta | 151 | 10 | 84 | 94 | ...... | ...... | 6 | 1 | 39 | 34 | 2 | 2 | 1 | ...... | 4 | 24 | 82 | 140 | 60 |
| †Dickinson | 142 | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | 130 | ...... |
| Eaton | 229 | 15 | 111 | 126 | ...... | ...... | 3 | ...... | 38 | 78 | ...... | 2 | 1 | 4 | 85 | 30 | 92 | 250 | 50 |
| Emmet | 127 | 22 | 120 | 142 | 4 | 1 | 15 | 4 | 36 | 34 | 2 | 2 | 1 | ...... | ...... | 27 | 136 | 146 | 68 |
| Genesee | 283 | 14 | 86 | 100 | 1 | ...... | ...... | 2 | 25 | 36 | ...... | ...... | ...... | ...... | 36 | 6 | 62 | 276 | 23 |
| Gladwin | 63 | 24 | 84 | 108 | ...... | ...... | 3 | 1 | 29 | 22 | 2 | 2 | ...... | ...... | 49 | 5 | 101 | 63 | 93 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gogebic with Marquette | 131 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | | | ..... | ..... | ..... | 142 | ..... |
| ‡Grand Traverse | 136 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | | | ..... | ..... | ..... | 141 | ..... |
| Gratiot | 194 | 41 | 127 | 168 | 1 | ..... | 22 | 1 | 60 | 45 | | ..... | | 18 | 21 | 75 | 139 | 302 | 48 |
| Hillsdale | 236 | 30 | 113 | 143 | 4 | 1 | ..... | 4 | 56 | 45 | 4 | 1 | | | 31 | 21 | 87 | 300 | 38 |
| *Houghton with Keweenaw | 456 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | | | ..... | ..... | ..... | 440 | ..... |
| Huron | 175 | 45 | 147 | 192 | 3 | ..... | 39 | 4 | 63 | 46 | 4 | ..... | | | 33 | 54 | 175 | 216 | 73 |
| Ingham | 266 | 4 | 84 | 88 | ..... | ..... | 1 | ..... | 25 | 29 | 5 | ..... | | | 29 | 27 | 66 | 287 | 21 |
| Ionia | 235 | 31 | 57 | 88 | ..... | ..... | 4 | 2 | 18 | 19 | | ..... | 4 | 3 | 35 | 15 | 77 | 289 | 17 |
| | | 3 | 45 | 48 | ..... | ..... | ..... | ..... | 6 | 20 | | ..... | | | 30 | ..... | 39 | | 9 |
| Iosco | 64 | 4 | 30 | 34 | 1 | ..... | ..... | ..... | 12 | 11 | 2 | 2 | | 5 | 6 | 5 | 13 | 78 | 42 |
| Iron | 75 | 9 | 65 | 74 | 4 | 5 | 34 | 2 | 9 | 18 | | ..... | | | 2 | 44 | 65 | 75 | 96 |
| *Isabella | 130 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | | ..... | | | ..... | ..... | ..... | 126 | ..... |
| Jackson | 288 | 7 | 16 | 23 | ..... | 1 | 2 | 2 | 10 | 3 | | ..... | | | 4 | 6 | 22 | 293 | 6 |
| | | 11 | 12 | 23 | 2 | 4 | 5 | 2 | 9 | 12 | 2 | 1 | | | 5 | 8 | ..... | | 12 |
| | | 30 | 110 | 140 | 2 | 1 | 10 | 5 | 74 | 41 | | ..... | 5 | | 10 | ..... | ..... | | 47 |
| *Kalamazoo | 314 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | | ..... | | | ..... | ..... | ..... | 362 | ..... |
| Kalkaska | 64 | ..... | 34 | 34 | ..... | ..... | ..... | ..... | 8 | 3 | | ..... | | 13 | 14 | 1 | 23 | 71 | 33 |
| Kent | 696 | 10 | 216 | 226 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | | | ..... | ..... | ..... | 816 | ..... |
| | | 17 | 298 | 315 | | | | | | | | | | | | | | | |
| *Keweenaw with Houghton | 23 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 23 | ..... |
| Lake | 51 | 5 | 35 | 40 | ..... | ..... | ..... | 1 | 7 | 12 | ..... | ..... | ..... | 1 | 22 | ..... | 33 | 59 | 35 |
| Lapeer | 184 | 20 | 139 | 159 | 1 | ..... | 6 | 3 | 72 | 66 | ..... | ..... | 3 | ..... | 36 | 5 | 121 | 210 | 61 |
| Leelanau | 72 | 9 | 45 | 54 | ..... | ..... | 2 | ..... | 24 | 18 | ..... | ..... | ..... | ..... | 13 | 10 | 45 | 73 | 60 |
| Lenawee | 316 | 33 | 225 | 258 | 3 | 8 | 28 | 1 | 89 | 69 | 5 | 8 | 32 | 1 | 14 | 66 | 225 | 336 | 72 |
| Livingston with Washtenaw | 171 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 308 | ..... |
| Luce with Marquette | 26 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 26 | ..... |
| †Mackinac | 67 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 90 | ..... |
| Macomb | 189 | 4 | 23 | 27 | ..... | ..... | ..... | ..... | 2 | 3 | ..... | ..... | ..... | 1 | 7 | ..... | 25 | 219 | 2 |
| Manistee | 161 | 21 | 138 | 159 | 3 | 3 | 9 | 16 | 47 | 31 | 6 | 4 | 14 | 7 | 14 | 27 | 150 | 204 | 68 |
| | | 2 | 28 | 30 | ..... | ..... | ..... | ..... | 2 | 28 | ..... | ..... | ..... | ..... | 25 | ..... | 16 | | 14 |
| Marquette | 254 | 27 | 199 | 226 | 6 | 4 | 80 | 3 | 10 | 15 | 3 | 4 | 64 | ..... | 5 | 155 | 218 | 229 | 82 |
| | | 2 | 54 | 56 | ..... | ..... | 2 | ..... | 2 | 6 | ..... | ..... | ..... | ..... | 23 | 51 | 56 | | 4 |
| Mason | 125 | 5 | 57 | 62 | ..... | ..... | ..... | ..... | 14 | 20 | ..... | ..... | ..... | 19 | 17 | 5 | 42 | 150 | 35 |
| †Mecosta | 145 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 148 | ..... |
| Menominee | 167 | 4 | 97 | 101 | ..... | ..... | 1 | ..... | 19 | 36 | 2 | ..... | ..... | ..... | 42 | ..... | 86 | 195 | 29 |
| Midland with Isabella | 107 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 119 | ..... |
| Missaukee | 81 | 16 | 67 | 83 | ..... | ..... | 6 | 3 | 26 | 35 | ..... | 3 | ..... | ..... | 10 | 20 | 58 | 88 | 83 |
| Monroe with Washtenaw | 183 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 201 | ..... |
| Montcalm with Isabella | 212 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 202 | ..... |
| Montmorency | 35 | 5 | 31 | 36 | 1 | ..... | ..... | ..... | 11 | 20 | ..... | ..... | ..... | ..... | 11 | 3 | 34 | 34 | 94 |
| Muskegon | 246 | 14 | 110 | 124 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 305 | ..... |
| | | 14 | 81 | 95 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | | ..... |
| Newaygo | 147 | 6 | 73 | 79 | ..... | ..... | ..... | 1 | 19 | 29 | 2 | ..... | ..... | 10 | 18 | ..... | 66 | 207 | 29 |

---

* No report.

† No institute.

‡ All counties; held in connection with State association.

## TABLE XXIII.—CONCLUDED.

| Counties. | Number of teachers required to supply schools. | Number enrolled. | | | Kinds and grades of certificates held by members. | | | | | | | | | | Number without experience in teaching. | Number having received normal instruction. | Average attendance each half day. | Number of legally qualified teachers in county. | Percentage of teachers in county attending institute. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Men. | Women. | Total. | State. | University. | Normal. | First. | Second. | Third. | Special. | College. | City. | County normal. | | | | | |
| Oakland with Washtenaw | 317 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 364 | ..... |
| Oceana | 124 | 38 | 106 | 144 | ..... | ..... | 11 | ..... | 34 | 30 | 3 | ..... | ..... | 9 | 23 | 14 | 139 | 225 | 38 |
| Ogemaw | 62 | 6 | 77 | 83 | 2 | ..... | ..... | ..... | 26 | 24 | 3 | ..... | ..... | 1 | 25 | 7 | 70 | 62 | 90 |
| Ontonagon | 77 | 5 | 57 | 62 | 5 | 1 | 10 | 2 | 19 | 8 | 1 | ..... | ..... | ..... | 11 | 32 | 56 | 83 | 55 |
| Osceola with Isabella | 133 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 197 | ..... |
| Oscoda | 26 | 6 | 21 | 27 | ..... | ..... | ..... | ..... | 5 | 9 | 3 | ..... | ..... | 1 | 3 | 1 | 10 | 31 | 58 |
| Otsego | 61 | 2 | 24 | 26 | 1 | ..... | 1 | ..... | 6 | 6 | 1 | ..... | ..... | 4 | 8 | 5 | 13 | 60 | 31 |
| Ottawa | 237 | 36 | 114 | 150 | ..... | ..... | 25 | 4 | 50 | 38 | 1 | 5 | 10 | ..... | 20 | 45 | 132 | 270 | 49 |
| | | 18 | 107 | 125 | 5 | 2 | 6 | 2 | 45 | 34 | 1 | 1 | 13 | ..... | 27 | 12 | 112 | | 40 |
| Presque Isle | 60 | 15 | 37 | 52 | 2 | ..... | 3 | 1 | 23 | 14 | 5 | 1 | ..... | ..... | 8 | 17 | 47 | 51 | 96 |
| Roscommon | 25 | 2 | 14 | 16 | ..... | ..... | ..... | 2 | 3 | 4 | 1 | ..... | ..... | ..... | 7 | ..... | 13 | 16 | 62 |
| Saginaw | 443 | 35 | 373 | 408 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 536 | ..... |
| St. Clair | 290 | 11 | 132 | 143 | ..... | ..... | 7 | 1 | 35 | 51 | 1 | ..... | ..... | 22 | 30 | 24 | 95 | 245 | 47 |
| St. Joseph with Kalamazoo | 203 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 226 | ..... |
| Sanilac | 193 | 35 | 51 | 86 | 6 | 2 | 4 | 2 | 31 | 20 | ..... | ..... | ..... | ..... | 23 | 15 | 86 | 240 | 27 |
| | | 66 | 94 | 100 | 4 | 1 | 3 | 2 | 37 | 40 | ..... | ..... | ..... | ..... | 74 | 12 | 149 | | 36 |
| | | 55 | 95 | 150 | ..... | ..... | 9 | 3 | 39 | 26 | ..... | 1 | ..... | ..... | 69 | 24 | 147 | | 32 |
| | | 52 | 70 | 122 | 1 | ..... | 2 | 4 | 57 | 52 | ..... | 1 | ..... | ..... | 23 | 23 | 89 | | 49 |
| †Schoolcraft | 62 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 62 | ..... |
| Shiawassee | 222 | 4 | 78 | 82 | ..... | | ..... | ..... | 31 | 21 | 1 | ..... | ..... | 5 | 24 | 15 | 47 | 296 | 19 |
| Tuscola | 210 | 10 | 98 | 108 | 2 | ..... | 5 | 1 | 46 | 34 | ..... | 2 | ..... | ..... | 18 | 30 | 64 | 225 | 40 |
| Van Buren with Kalamazoo | 239 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 251 | ..... |
| Washtenaw | 320 | 35 | 423 | 458 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 158 | ..... | ..... | 394 | ..... |
| Wayne | 1,462 | 45 | 106 | 151 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1,323 | |
| | | 41 | 95 | 136 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | | ..... |
| | | 150 | 1,600 | 1,750 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1,650 | | ..... |
| | | 50 | 350 | 400 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 233 | | ..... |
| | | 100 | 1,100 | 1,200 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 566 | | ..... |
| *Wexford | 136 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 148 | ..... |

* No institute.

† No report.

## TABLE XXIV.

*County boards of school examiners for 1905-06.*

| County. | Name. | Address. | Occupation. |
|---|---|---|---|
| Alcona | W. H. Sanborn | Harrisville | Teacher. |
| | John A. Stewart | Mikado | Teacher. |
| | Thos. B. Cook | Harrisville | Teacher. |
| Alger | Melvin E. Shippey | Chatham | Teacher. |
| | Orvice LaBounty | Munising | Teacher. |
| | H. A. Schall | Grand Marais | Druggist. |
| Allegan | Ira G. Thorpe | Allegan | Teacher. |
| | Volney Stuck | Hopkins Station | Teacher. |
| | R. M. Sprague | Ypsilanti | Teacher. |
| Alpena | James A. Case | Alpena | Farmer. |
| | E. L. Little | Alpena | Clergyman. |
| | E. H. Fox | Long Rapids | Teacher. |
| Antrim | H. M. Coldren | Bellaire | Teacher. |
| | Geo. E. Cabanis | Bellaire | Farmer. |
| | John Hawley | East Jordan | Farmer. |
| Arenac | Geo. H. Glasure | Au Gres | Teacher. |
| | D. D. Pattie | Sterling | Teacher. |
| Baraga | S. O. Clinton | Baraga | Teacher. |
| | Kate Curry | L'Anse | Teacher. |
| | Helen O'Connor | L'Anse | Teacher. |
| Barry | J. C. Ketcham | Hastings | Teacher. |
| | Don D. Putnam | Prairieville | |
| | O. E. Balyeat | Freeport | Teacher. |
| Bay | J. B. Laing | Bay City | Teacher. |
| | James Cotter | Essexville | Teacher. |
| | Otto J. Manary | West Bay City | Teacher. |
| Benzie | W. Daines | Benzonia | |
| | Lizzie Tillie | South Frankfort | Teacher. |
| | Lillian Jaqueth | Benzonia | Teacher. |
| Berrien | C. D. Jennings | St. Joseph | Teacher. |
| | F. C. Harner | Benton Harbor | Real Estate. |
| | Edward English | Henchman | Teacher. |
| Branch | James Swain | Coldwater | Teacher. |
| | E. A. Hurley | Coldwater | Teacher. |
| | F. E. Knapp | Quincy | Teacher. |
| Calhoun | Frank D. Miller | Marshall | Teacher. |
| | A. J. Flint | Homer | Teacher. |
| | E. L. McPherson | Battle Creek | Teacher. |
| Cass | W. H. C. Hale | Cassopolis | Teacher. |
| | H. S. East | Vandalia | Teacher. |
| | John Finley | Dowagiac | Teacher. |
| Charlevoix | J. H. Milford | South Arm | Teacher. |
| | Hubert E. Bell | Boyne | Teacher. |
| | W. H. Woodley | Charlevoix | Teacher. |
| Cheboygan | E. W. Baker | Cheboygan | Teacher. |
| | W. L. Coffee | Wolverine | Teacher. |
| | C. J. Severance | Cheboygan | Teacher. |
| Chippewa | T. R. Easterday | Sault Ste. Marie | Preacher. |
| | T. B. Aldrich | Brimley | Teacher. |
| | P. N. McLean | De Tour | Teacher. |
| Clare | F. G. Welch | Clare | Editor. |
| | John F. Brown | Temple | Teacher. |
| | Valzell Gibson | Crooked Lake | Teacher. |
| Clinton | T. H. Townsend | St. Johns | |
| | B. A. Burnes | St. Johns | Teacher. |
| | E. J. Leddick | Fowler | Teacher. |
| Crawford | J. E. Bradley | Grayling | Teacher. |
| | Mrs. Isabel Cobb | Frederic | Teacher. |
| | Julia Inglis | Frederic | Teacher. |
| Delta | P. R. Legg | Gladstone | |
| | F. D. Davis | Escanaba | Teacher. |
| | Chas. U. Woolpert | Wells | Teacher. |
| Dickinson | E. L. Parmenter | Iron Mountain | |
| | F. P. Frost | Norway | Teacher. |
| | L. E. Amidon | Iron Mountain | Teacher. |

TABLE XXIV.—Continued.

| County. | Name. | Address. | Occupation. |
|---|---|---|---|
| Eaton | J. L. Wagner | Charlotte | Teacher. |
| | A. A. Worcester | Eaton Rapids | Teacher. |
| | Garfield Inwood | Vermontville | Teacher. |
| Emmet | R. M. Winston | Petoskey | |
| | Carl Worden | Petoskey | Teacher. |
| | W. R. Hurd | Harbor Springs | Merchant. |
| Genesee | F. J. Johnson | Flint | |
| | E. A. Branch | Otisville | Teacher. |
| | H. E. Potter | Grand Blanc | Teacher. |
| Gladwin | F. E. Armstrong | Gladwin | Teacher. |
| | Mae Shell | Gladwin | Teacher. |
| | Charlotte Ferrell | Beaverton | Teacher. |
| Gogebic | L. L. Wright | Ironwood | Teacher. |
| | Amelia F. Olcott | Bessemer | Teacher. |
| Grand Traverse | Geo. Crisp | Traverse City | Teacher. |
| | Lee Hornsby | Traverse City | Teacher. |
| | E. O. Ladd | Old Mission | Farmer. |
| Gratiot | C. F. Pike | Ithaca | Teacher. |
| | W. E. Swope | Breckenridge | Teacher. |
| | M. L. Hull | St. Louis | Teacher. |
| Hillsdale | C. P. Hulce | Hillsdale | |
| | H. P. McClave | Pittsford | Teacher. |
| | C. L. Poor | Waldron | Teacher. |
| Houghton | Wm. Bath | Houghton | Clerk. |
| | A. E. Peterman | Calumet | Lawyer. |
| | Fred A. Jeffers | Atlantic Mine | Teacher. |
| Huron | David Kaercher | Sebewaing | Teacher. |
| | Geo. F. Manning | Elkton | Teacher. |
| | George H. Hall | Elkton | Teacher. |
| Ingham | A. G. Wilson | Mason | Farmer. |
| | Leroy Dietz | Williamston | Teacher. |
| | Geo. W. Harvey | Lansing | Teacher. |
| Ionia | Harvey H. Lowrey | Ionia | |
| | Geo. E. Downs | Lake Odessa | Teacher. |
| | Chas. Reasoner | Pewamo | Teacher. |
| Iosco | J. A. Campbell | Whittemore | Teacher. |
| | Mina Hamilton | East Tawas | Teacher. |
| | B. G. Sutton | Au Sable | Teacher. |
| Iron | John F. Mason | Amasa | Teacher. |
| | A. L. Flewelling | Crystal Falls | Teacher. |
| Isabella | H. A. Graham | Mt. Pleasant | Teacher. |
| | A. W. Lynch | Rosebush | Teacher. |
| | F. E. Morrison | Loomis | Teacher. |
| Jackson | Thos. M. Sattler | Jackson | Teacher. |
| | J. Ray Fisher | Rives Junction | Teacher. |
| | Frank Brown | Brooklyn | Teacher. |
| Kalamazoo | J. W. Hazard | Kalamazoo | Teacher. |
| | C. H. McLean | Schoolcraft | Teacher. |
| | Arthur Stannard | Galesburg | |
| Kalkaska | Irene L. Getty | Kalkaska | Teacher. |
| | Eugene Phelps | Darragh | Farmer. |
| | Frank Jensen | Kalkaska | Teacher. |
| Kent | A. R. Zimmer | Grand Rapids | Teacher. |
| | C. M. Ferner | Grandville | Teacher. |
| | P. N. Sawyer | Sparta | Teacher. |
| Keweenaw | P. O. Decker | Mohawk | Teacher. |
| | James Hamilton | Allouez | Teacher. |
| | Clarence Chrysler | Copper Falls Mine | Teacher. |
| Lake | Edwin G. Johnson | Luther | Insurance. |
| | Eugene Robertson | Bristol | Teacher. |
| Lapeer | W. F. Laughlin | Lapeer | Teacher. |
| | C. H. Naylor | Imlay City | Teacher. |
| | R. V. Langdon | Clifford | Lawyer. |

## TABLE XXIV.—Continued.

| County. | Name. | Address. | Occupation. |
|---|---|---|---|
| Leelanau | J. O. Duncan | Sutton's Bay | |
| | E. F. Carr | Empire | Teacher. |
| Lenawee | M. W. Hensel | Blissfield | Teacher. |
| | Mae Hathaway | Blissfield | Teacher. |
| | John C. Howell | Macon | Student. |
| Livingston | N. Knooihuizen | Fowlerville | Teacher. |
| | Harry Durfee | Oak Grove | Teacher. |
| | T. J. Gaul | Pinckney | Teacher. |
| Luce | H. G. Warne | Newberry | Teacher. |
| | Eva F. Beurmann | Newberry | Teacher. |
| | Edward Seymour | Newberry | Clergyman. |
| Mackinac | E. J. LaChance | St. Ignace | Bookkeeper. |
| | W. J. Fessant | Viola | Postmaster. |
| | J. J. Thompson | St. Ignace | |
| Macomb | O. D. Thompson | Mt. Clemens | Teacher. |
| | E. F. Crook | New Baltimore | Teacher. |
| | L. M. Johnston | Mt. Clemens | Attorney. |
| Manistee | H. J. Leighton | Bear Lake | Teacher. |
| | C. I. Ricker | East Lake | Teacher. |
| | E. M. Gerred | Filer City | Teacher. |
| Marquette | A. E. Sterne | Ishpeming | Teacher. |
| | J. H. Kaye | Marquette | Teacher. |
| | F. S. Monical | Beacon | Teacher. |
| Mason | C. A. Rinehart | Scottville | Editor. |
| | Gertrude L. Darr | Custer | Teacher. |
| | Pauline Smith | Ludington | Teacher. |
| Mecosta | Edward Keeler | Big Rapids | Teacher. |
| | J. R. Miller | Big Rapids | Teacher. |
| | B. J. Ford | Big Rapids | Teacher. |
| Menominee | Jesse Hubbard | Menominee | Teacher. |
| | W. B. Weenink | Spalding | Teacher. |
| | J. O. Prosse | Hermansville | Teacher. |
| Midland | Jas. H. Mustard | Midland | |
| | W. H. Buck | Coleman | Teacher. |
| | G. L. Jenner | Midland | Teacher. |
| Missaukee | Ezra Hall | Lake City | Teacher. |
| | C. J. Jackson | Lake City | Teacher. |
| | M. L. Wolverton | Lake City | Teacher. |
| Monroe | A. C. Marvin | Monroe | Teacher. |
| | Frank Partlem | Newport | Teacher. |
| | Theo. Drinkhahn | Scofield | Teacher. |
| Montcalm | E. D. Straight | Stanton | Teacher. |
| | F. E. Schall | Lakeview | Teacher. |
| | J. E. McClosky | Howard City | Teacher. |
| Montmorency | S. H. Knisley | Hillman | Bank Cashier. |
| | B. J. Waters | Lewiston | Teacher. |
| | Mrs. Rice | Big Rock | Teacher. |
| Muskegon | J. O. Reed | Whitehall | Teacher. |
| | James H. Cogshall | Muskegon | Book Agent. |
| | R. W. Brock | Muskegon | Teacher. |
| Newaygo | Isabella M. Becker | Fremont | |
| | John Harwood | White Cloud | Teacher. |
| | J. C. Kritser | Grant | Teacher. |
| Oakland | H. S. Elliott | Oxford | Teacher. |
| | A. L. Craft | Rochester | Teacher. |
| | Theo. Goodfellow | Royal Oak | Teacher. |
| Oceana | E. W. Fleming | Hart | Editor. |
| | J. L. Walker | Crystal Valley | Teacher. |
| | W. O. Cole | Shelby | Teacher. |
| Ogemaw | Ben Bennett | West Branch | Teacher. |
| | Archie McMillan | Prescott | Teacher. |
| | H. S. Kercher | Rose City | |
| Ontonagon | A. C. Adair | Rockland | |
| | Mrs. Clara M. Omans | Rockland | Teacher. |
| | Frank D. Smith | Ontonagon | Teacher. |

## TABLE XXIV.—Concluded.

| County. | Name. | Address. | Occupation. |
|---|---|---|---|
| Osceola | Geo. F. Roxburg | Reed City | Teacher. |
| | F. C. Smith | Tustin | Teacher. |
| | Myron Jerome | Evart | Teacher. |
| Oscoda | B. J. Watters | Mio | Teacher. |
| | Marguerite Perry | Mio | Teacher. |
| | Mrs. Chas. Crawford | Red Oak | Housekeeper. |
| Otsego | R. D. Bailey | Gaylord | Teacher. |
| | Maurice Keyworth | Elmira | Teacher. |
| | A. J. Armstrong | Vanderbilt | Teacher. |
| Ottawa | C. E. Kelley | Herrington | Teacher. |
| | Martin DeGraff | Lisbon | Teacher. |
| | Nelson Stanton | Holland | Teacher. |
| Presque Isle | M. H. Nester | Metz | Physician. |
| | Mrs. Fred Platz | Rogers City | Teacher. |
| | Ada Paine | Onaway | Teacher. |
| Roscommon | W. M. Coon | Roscommon | Druggist. |
| | Adelia McCrea | Roscommon | Teacher. |
| | Verna Gibbons | Roscommon | Housekeeper. |
| Saginaw | John C. Nafe | Saginaw, W. S | Teacher. |
| | J. B. Griffin | Carrollton | Teacher. |
| | A. C. Leach | Birch Run | Teacher. |
| St. Clair | E. T. Blackney | Port Huron | Teacher. |
| | W. J. Tripp | St. Clair | Teacher. |
| | W. F. Lewis | Port Huron | Teacher. |
| St. Joseph | L. E. Miller | Centerville | Teacher. |
| | J. W. Cupples | Centerville | Teacher. |
| | Geo. DeLong | Three Rivers | Teacher. |
| Sanilac | Chas. G. Putney | Sandusky | Teacher. |
| | Geo. E. Meredith | Speaker | Teacher. |
| | F. Dunn | Sandusky | Teacher. |
| Schoolcraft | Beulah Bowen | Manistique | Teacher. |
| | C. W. Dunton | Manistique | Lawyer. |
| | W. T. S. Cornell | Manistique | Teacher. |
| Shiawassee | H. E. Slocum | Corunna | Teacher. |
| | T. A. Mears | Byron | Teacher. |
| | C. B. Jordan | Morrice | Teacher. |
| Tuscola | H. P. Bush | Caro | Teacher. |
| | C. L. Coffen | Unionvile | Teacher. |
| | R. J. Smith | Kingston | Teacher. |
| Van Buren | E. A. Aseltine | Paw Paw | Teacher. |
| | R. B. Taylor | Paw Paw | Teacher. |
| | A. L. Haymes | Gobleville | Teacher. |
| Washtenaw | C. E. Foster | Ann Arbor | Teacher. |
| | Josephine Hoppe | Chelsea | Teacher. |
| | M. J. Cavenaugh | Ann Arbor | Lawyer. |
| Wayne | E. W. Yost | Detroit | Teacher. |
| | W. Lightbody | Detroit | Teacher. |
| | W. Harris | Highland Park | Teacher. |
| Wexford | W. H. Faunce | Cadillac | Teacher. |
| | Mason L. Fish | Mesick | Teacher. |
| | R. J. Joernhans | Manton | Teacher |

## TABLE XXV.

*General statistics of educational institutions compiled from reports of officers for the academic year 1905–1906.*

| Name of institution. | Location. | Name of president, superintendent, or principal. | Date of organization. | Number of instructors. | Number of students or inmates during the year. | Number of students from Michigan. | Number of graduates at last commencement. | Whole number of graduates since founded. | Number of volumes in library. | Number of volumes added to library during year. |
|---|---|---|---|---|---|---|---|---|---|---|
| ESTABLISHED BY ACTS OF LEGISLATURE. | | | | | | | | | | |
| *Educational:* | | | | | | | | | | |
| Central Michigan Normal School | Mt. Pleasant | Charles T Grawn | 1895 | 38 | 900 | 895 | 134 | 1,114 | 7,882 | 1,277 |
| Michigan Agricultural College | Lansing | Jonathan L. Snyder | 1857 | 80 | 950 | 872 | 70 | 1,183 | 26,638 | 811 |
| Michigan College of Mines | Houghton | Fred W. McNair | 1885 | 38 | 234 | 140 | 50 | 378 | 20,708 | 827 |
| Michigan State Normal College | Ypsilanti | Lewis H. Jones | 1852 | 76 | 2,083 | 1,913 | 399 | 5,564 | 29,000 | 1,000 |
| Northern State Normal School | Marquette | James H. Kaye | 1899 | 23 | 438 | 430 | 73 | 292 | 12,002 | 2,515 |
| University of Michigan | Ann Arbor | James B. Angell | 1837 | 322 | 4,571 | 2,467 | 823 | 21,897 | 154,435 | 11,896 |
| Western Michigan Normal School | Kalamazoo | Dwight B. Waldo | 1903 | 20 | 483 | 476 | 65 | 84 | 2,000 | 800 |
| Totals | | | | 597 | 9,659 | 7,193 | 1,614 | 30,512 | 252,660 | 19,126 |
| *Charitable:* | | | | | | | | | | |
| Industrial Home for Girls | Adrian | Lucy M. Sickles | 1879 | 39 | 447 | 447 | ........ | ........ | 1,639 | 22 |
| Industrial School for Boys | Lansing | E. M. Lawson | 1856 | 14 | 1,113 | 1,113 | ........ | ........ | 3,500 | 200 |
| School for the Blind | Lansing | Clarence E. Holmes | 1881 | 15 | 111 | 111 | 2 | ........ | 4,350 | 200 |
| School for the Deaf | Flint | Francis D. Clarke | 1854 | 46 | 351 | 351 | 31 | 1,712 | 5,336 | 442 |
| State Public School | Coldwater | J. B. Montgomery | 1874 | 5 | 428 | 428 | ........ | ........ | 2,280 | ........ |
| Totals | | | | 119 | 2,450 | 2,450 | 33 | 1,712 | 17,105 | 864 |
| INCORPORATED UNDER ACT 39, LAWS OF 1855. | | | | | | | | | | |
| *Denominational:* | | | | | | | | | | |
| Adrian College | Adrian | B. W. Anthony | 1859 | 15 | 162 | 61 | 14 | 600 | 7,000 | 50 |
| Albion College | Albion | Samuel Dickie | 1861 | 27 | 483 | 452 | 35 | 846 | 17,500 | 450 |
| Alma College | Alma. | August F. Bruske | 1887 | 22 | 245 | 227 | 7 | 118 | 19,750 | 615 |
| Detroit College | Detroit | Louis Killinger | 1881 | 14 | 255 | 255 | 20 | 316 | 12,487 | 563 |
| Emmanuel Missionary College | Berrien Springs | N. W. Kauble | 1899 | 10 | 91 | 60 | 3 | ........ | 3,000 | ........ |

## TABLE XXV.—CONTINUED.

| Name of institution. | Location. | Name of president, superintendent, or principal. | Date of organization. | Number of instructors. | Number of students or inmates during the year. | Number of students from Michigan. | Number of graduates at last commencement. | Whole number of graduates since founded. | Number of volumes in library. | Number of volumes added to library during year. |
|---|---|---|---|---|---|---|---|---|---|---|
| Hillsdale College | Hillsdale | Joseph W. Mauck | 1855 | 23 | 377 | 312 | 20 | 1,038 | 14,416 | |
| Hope College | Holland | Gerrit J. Kollen | 1866 | 15 | 292 | 220 | 14 | 340 | 14,500 | 690 |
| Kalamazoo College | Kalamazoo | A Gaylord Slocum | 1855 | 13 | 232 | 196 | 32 | 433 | 10,352 | 852 |
| Olivet College | Olivet | Ellsworth G. Lancaster | 1859 | 28 | 294 | 257 | 24 | 641 | 31,000 | |
| Totals | | | | 167 | 2,431 | 2,040 | 169 | 4,332 | 130,005 | 3,130 |
| *Academies and Seminaries:* | | | | | | | | | | |
| Academy of the Ladies of the Loretto | Sault Ste. Marie | Mother M. Bride | 1898 | 7 | 115 | 100 | 8 | 23 | 1,000 | 10 |
| Academy of the Sacred Heart | Detroit | Mme. Marie Louise Gerardin | 1850 | 11 | 80 | 80 | | | 2,587 | 117 |
| Academy of the Sacred Heart | Grosse Pointe Farms | Mme. Anna Hutton | 1885 | 17 | 70 | 50 | 4 | 68 | 2,600 | 50 |
| Akeley Hall | Grand Haven | | | | | | | | | |
| Benzonia Academy | Benzonia | Charles W. Dunn | 1900 | 5 | 60 | 58 | 4 | 20 | 5,000 | |
| Detroit Home and Day School | Detroit | Miss Ella M. Liggett | 1882 | 32 | 318 | 310 | 16 | 362 | 3,500 | 500 |
| Detroit Seminary | Detroit | | | | | | | | | |
| Detroit University School | Detroit | Frederick L. Bliss | | 24 | 234 | 212 | 29 | 180 | 2,137 | 7 |
| Holy Rosary Academy | Bay City | | | | | | | | | |
| Michigan Female Seminary | Kalamazoo | | | | | | | | | |
| Michigan Military Academy | Orchard Lake | Lawrence Cameron Hull | 1877 | 12 | 134 | 40 | 21 | 482 | 5,000 | 100 |
| Nazareth Academy | Nazareth | Sister M. Gertrude Keenan | 1897 | 18 | 103 | 75 | 3 | 9 | 6,000 | 500 |
| Raisin Valley Seminary | Adrian | Charles S. Obee | 1855 | 5 | 55 | 49 | 7 | 193 | 450 | |
| St. Mary's Academy | Monroe | Mother M. Mechtildis | 1890 | 32 | 354 | 285 | 13 | 158 | 9,252 | 129 |
| St. Mary's School | Sault Ste. Marie | Rev. Alex. A. Gagnieur | 1898 | 8 | 418 | 413 | | | 500 | |
| Seminary of the Felician Sisters | Detroit | Cajetana Jankiewicz | 1882 | 6 | 77 | 17 | 23 | 219 | 2,005 | 200 |
| Spring Arbor Seminary | Spring Arbor | Burton J. Vincent | 1873 | 9 | 174 | 137 | 25 | | 630 | 30 |
| Theological School of the Christian Reformed Church | Grand Rapids | Rev. F. M. Ten Hoor | 1878 | 10 | 152 | 104 | 20 | 122 | 3,100 | 500 |
| Ursuline Academy | St. Ignace | Mother M. Angela | 1899 | 9 | 120 | 119 | | 10 | 830 | 10 |
| Totals | | | | 205 | 2,464 | 2,054 | 173 | 1,846 | 44,591 | 2,153 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| *Professional Schools.* | | | | | | | | | | |
| Detroit College of Law | Detroit | Philip T. Van Zile | 1893 | 23 | 191 | 160 | 34 | 508 | 14,103 | 653 |
| Detroit College of Medicine | Detroit | Theodore A. McGraw | 1885 | | | | | | | |
| Department of Dental Surgery | | | | 35 | 86 | 54 | 22 | 292 | | |
| Medicine | | | | 93 | 173 | 118 | 82 | 1,687 | 1,200 | |
| Detroit Homeopathic College | Detroit | C. C. Miller | 1899 | 33 | 33 | 21 | 16 | 66 | | |
| Grand Rapids Medical College | Grand Rapids | William Fuller | 1897 | 22 | 40 | 38 | 12 | 84 | 300 | 20 |
| Michigan College of Medicine and Surgery | Detroit | Hal C. Wyman | 1888 | 48 | 70 | 50 | 22 | 544 | 5,000 | 400 |
| Sprague Correspondence School of Law | Detroit | | | | | | | | | |
| Totals | | | | 254 | 593 | 441 | 188 | 3,181 | 20,603 | 1,073 |
| *Schools with Normal and Business Course:* | | | | | | | | | | |
| Benton Harbor College | Benton Harbor | George J. Edgcumbe | 1892 | 16 | 312 | 302 | 26 | 385 | 1,205 | 25 |
| Cedar Lake Industrial Academy | Cedar Lake | Sylvester M. Butler | 1902 | 5 | 83 | 82 | | | 200 | |
| Cleary Business College | Ypsilanti | P. R. Cleary | 1891 | 10 | 413 | 399 | 69 | 1,112 | 554 | 8 |
| *Fenton Normal School and Commercial College | Fenton | | | | | | | | | |
| Ferris Institute | Big Rapids | Woodbridge N. Ferris | 1894 | 20 | 1,994 | 1,942 | 95 | 727 | 1,967 | 767 |
| Grand Rapids Business University | Grand Rapids | A. S. Parish | 1897 | 3 | 142 | 142 | | | | |
| International Business College | Saginaw | S. W. Pearcy | 1896 | 5 | 183 | 180 | 9 | 56 | | |
| Jackson Business University | Jackson | B. J. Campbell | 1901 | 4 | 151 | 150 | 34 | | | |
| Ludington Business College | Ludington | W. H. Martindill | 1898 | 2 | 71 | 71 | 29 | | 98 | 3 |
| Michigan Business and Normal College | Battle Creek | C. J. Argubright | 1892 | 3 | 258 | 240 | 50 | | | |
| Totals | | | | 68 | 3,607 | 3,508 | 312 | 2,280 | 4,024 | 803 |

* United with Adelphian Academy Association, Holly, Michigan, April 18, 1905.

# TABLE XXVI.

*Financial statistics of educational institutions compiled from reports for the academic year 1905–1906.*

| Name of institution. | Annual cost of tuition per student. | Average cost of board per week. | Total average annual cost to each student. | Total average annual cost of each student to the State. | Estimated value of grounds, buildings, library, apparatus, etc. | Amount of productive funds. | Income from productive funds. | Amount of legislative appropriation for 1906. | Receipts from tuition fees during the year. | Receipts from all other sources. | Current expenses for the year. | Expenses for permanent improvements. | Liabilities. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESTABLISHED BY ACTS OF LEGISLATURE. | | | | | | | | | | | | | |
| *Educational:* | | | | | | | | | | | | | |
| Central Michigan Normal School | $12 00 | $2 50 | $150 00 | $94 23 | $177,500 00 | .......... | .......... | $66,565 00 | $2,004 00 | $394 50 | $68,963 50 | $30,000 00 | .......... |
| Michigan Agricultural College | * 15 00 | 2 48 | 225 00 | .......... | 849,387 52 | 973,336 49 | 70,286 56 | 157,810 05 | 865 00 | 177,148 84 | 184,959 52 | 85,446 06 | .......... |
| Michigan College of Mines | 25 00<br>* 150 00 | 5 00 | 450 00<br>* 600 00 | 256 41 | 423,611 70 | .......... | .......... | 60,000 00 | 14,207 00 | 19,720 09 | 93,927 09 | 20,000 00 | .......... |
| Michigan State Normal College | 10 00 | 2 50 | 175 00 | 61 06 | 462,975 00 | .......... | 4,000 00 | 112,000 00 | 12,200 00 | .......... | 126,881 36 | 10,800 00 | .......... |
| Northern State Normal School | 12 00 | 3 75 | 174 00 | 93 61 | 128,622 10 | .......... | .......... | 41,000 00 | 2,444 00 | .......... | 43,444 00 | 15,000 00 | .......... |
| University of Michigan | 53 47 | 3 25 | 350 00 | 75 50 | 2,967,500 00 | 263,096 60 | 17,707 92 | 442,525 00 | 226,073 00 | 379,612 00 | 583,845 15 | 52,731 17 | .......... |
| Western Michigan Normal School | 9 00 | 2 25 | 160 00 | 72 00 | 115,000 00 | .......... | .......... | 35,000 00 | .......... | 1,635 00 | 36,635 00 | 5,400 00 | .......... |
| *Charitable:* | | | | | | | | | | | | | |
| Industrial Home for Girls | .......... | 87 | .......... | 121 60 | 243,623 62 | .......... | 3,009 26 | 66,000 00 | .......... | 3,871 56 | 67,707 70 | 10,976 40 | .......... |
| Industrial School for Boys | .......... | ...... | .......... | 110 00 | 331,400 00 | .......... | .......... | 91,200 00 | .......... | 8,192 77 | 89,967 70 | .......... | .......... |
| School for the Blind | .......... | ...... | .......... | 250 00 | 176,427 00 | .......... | .......... | .......... | .......... | .......... | 34,752 12 | .......... | .......... |
| School for the Deaf | 54 00 | 1 34 | .......... | 235 80 | 587,556 40 | .......... | .......... | 102,500 00 | .......... | 11,101 18 | 91,981 90 | 14,098 08 | .......... |
| State Public School | .......... | 1 68 | .......... | 87 62 | 205,109 68 | .......... | .......... | 37,500 00 | .......... | 6,607 96 | 37,500 00 | 13,230 29 | .......... |
| INCORPORATED UNDER ACT 39, LAWS OF 1855. | | | | | | | | | | | | | |
| *Denominational:* | | | | | | | | | | | | | |
| Adrian College | 15 00 | 2 75 | 198 00 | .......... | 150,000 00 | 22,000 00 | 1,320 00 | .......... | 20,000 00 | 3,000 00 | 20,000 00 | 4,500 00 | $28,500 00 |
| Albion College | 30 00 | 3 25 | 180 00 | .......... | 250,000 00 | 255,000 00 | 14,300 00 | .......... | 18,169 69 | 8,068 05 | 42,196 27 | 3,455 00 | .......... |
| Alma College | 32 00 | 2 50 | 175 00 | .......... | 176,145 38 | 257,889 82 | 14,157 55 | .......... | 5,295 48 | 7,980 26 | 27,103 20 | 606 66 | 860 88 |
| Detroit College | 60 00 | ...... | 60 00 | .......... | 170,000 00 | .......... | .......... | .......... | 11,717 00 | .......... | 16,011 40 | .......... | 22,057 43 |
| Emmanuel Missionary College | 44 00 | 3 00 | 176 00 | .......... | 42,000 00 | .......... | .......... | .......... | 3,007 88 | 13,385 95 | 13,258 87 | 3,000 00 | 17,816 83 |
| Hillsdale College | 23 50 | 2 15 | 100 00<br>to 200 00 | .......... | 120,098 63 | 241,200 09 | 11,553 25 | .......... | 3,123 81 | 2,604 41 | 20,378 67 | 5,855 32 | .......... |
| Hope College | 18 00 | 2 50 | 175 00 | .......... | 225,000 00 | 250,000 00 | 14,429 32 | .......... | 2,737 50 | 2,406 16 | 24,328 45 | 31,000 00 | 10,000 00 |
| Kalamazoo College | 30 00 | 2 75 | 200 00<br>to 250 00 | .......... | 133,000 00 | 412,313 22 | 17,567 44 | .......... | 6,069 00 | 2,388 42 | 26,458 25 | 1,784 07 | 2,482 85 |
| Olivet College | 50 00 | 2 50 | 225 00 | .......... | 250,000 00 | 125,000 00 | 5,500 00 | .......... | 20,000 00 | 26,750 00 | 53,000 00 | 3,000 00 | 70,000 00 |
| *Academies and Seminaries:* | | | | | | | | | | | | | |
| Academy of the Ladies of the Loretto | 20 00 | 3 50 | 130 00 | .......... | .......... | .......... | .......... | .......... | 3,500 00 | .......... | 4,000 00 | 50 00 | 10,000 00 |
| Academy of the Sacred Heart | 40 00<br>60 00 | ...... | .......... | .......... | .......... | .......... | .......... | .......... | 3,289 00 | .......... | 3,289 00 | 500 00 | .......... |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Academy of the Sacred Heart* | 150 00 | ...... | 350 00 | ......... | ......... | ......... | ......... | ......... | 15,000 00 | 100 00 | 19,115 00 | 2,000 00 | ......... |
| Akeley Hall | ......... | ...... | ......... | ......... | ......... | ......... | ......... | ......... | ......... | ......... | ......... | ......... | ......... |
| Bensonis Academy | 25 00 | 2 50 | 100 00 | ......... | 10,000 00 | 10,000 00 | 250 00 | ......... | 595 25 | 952 90 | 1,658 09 | 125 53 | 693 72 |
| Detroit Home and Day School | 70 00 to 200 00 | 5 00 | 50 00 | ......... | 87,000 00 | ......... | ......... | ......... | 53,283 00 | ......... | 50,523 00 | 2,000 00 | ......... |
| Detroit Seminary | ......... | ...... | ......... | ......... | ......... | ......... | ......... | ......... | ......... | ......... | ......... | ......... | ......... |
| Detroit University School | 85 00 to 600 00 | ...... | 85 00 to 600 00 | ......... | 38,173 93 | ......... | ......... | ......... | 49,129 09 | 2,391 50 | 55,778 22 | 1,375 62 | 22,853 25 |
| Holy Rosary Academy | ......... | ...... | ......... | ......... | ......... | ......... | ......... | ......... | ......... | ......... | ......... | ......... | ......... |
| Michigan Female Seminary | ......... | ...... | ......... | ......... | ......... | ......... | ......... | ......... | ......... | ......... | ......... | ......... | ......... |
| Michigan Military Academy | † 500 00 | ...... | 750 00 | ......... | 250,000 00 | ......... | ......... | ......... | ......... | ......... | ......... | ......... | ......... |
| Nazareth Academy | † 150 00 | 3 75 | ......... | ......... | ......... | ......... | ......... | ......... | ......... | ......... | ......... | ......... | ......... |
| Raisin Valley Seminary | 20 00 | 2 25 | 155 00 | ......... | 6,000 00 | 10,700 00 | 793 00 | ......... | 761 72 | 400 00 | 2,554 30 | 200 00 | ......... |
| St. Mary's Academy | 40 00 | ...... | 160 00 | ......... | 250,000 00 | ......... | ......... | ......... | 43,310 71 | 8,151 58 | 37,395 56 | 11,999 75 | 118,626 00 |
| St. Mary's School | 5 00 | ...... | ......... | ......... | 30,000 00 | ......... | ......... | ......... | 300 00 | 1,700 00 | 2,000 00 | ......... | 8,000 00 |
| Seminary of the Felician Sisters | 80 00 | 2 50 | 140 00 | ......... | 91,000 00 | ......... | ......... | ......... | 512 00 | 2,270 00 | 2,782 00 | 200 00 | ......... |
| Spring Arbor Seminary | 24 00 | 1 75 | 110 00 | ......... | 30,000 00 | 6,000 00 | 240 00 | ......... | 3,000 00 | 150 00 | 3,045 00 | 300 00 | 4,000 00 |
| Theological School, Christian Reformed Church | 26 00 | 3 50 | 250 00 | ......... | 40,000 00 | ......... | ......... | ......... | 3,403 00 | 9,253 73 | 12,112 66 | 200 00 | ......... |
| Ursuline Academy | 5 00 | 3 00 | 120 00 | ......... | 12,500 00 | ......... | ......... | ......... | 1,000 00 | 1,800 00 | 2,500 00 | 280 00 | 900 00 |
| *Professional Schools:* | | | | | | | | | | | | | |
| Detroit College of Law | 75 00 | ...... | ......... | ......... | 33,000 00 | ......... | ......... | ......... | 12,973 53 | 2,363 51 | 15,023 02 | ......... | ......... |
| Detroit College of Medicine: | | | | | | | | | | | | | |
| Department of Dental Surgery | 90 00 | 3 00 | 230 00 | ......... | 18,000 00 | ......... | ......... | ......... | 7,395 00 | 3,075 68 | 13,031 64 | ......... | ......... |
| Medicine | 110 00 | 3 00 | 250 00 | ......... | 132,000 00 | ......... | ......... | ......... | 19,435 00 | 1,832 36 | 20,458 89 | 600 00 | 46,000 00 |
| Detroit Homeopathic College | 80 00 to 90 00 | ...... | ......... | ......... | 50,000 00 | ......... | ......... | ......... | 2,700 00 | ......... | ......... | ......... | ......... |
| Grand Rapids Medical College | 85 00 | 4 00 | 215 00 | ......... | 35,000 00 | ......... | ......... | ......... | 3,200 00 | ......... | 2,400 00 | 150 00 | ......... |
| Michigan College of Medicine and Surgery | 90 00 | 4 00 | ......... | ......... | 50,000 00 | 8,000 00 | ......... | ......... | 6,300 00 | 8,000 00 | 8,000 00 | 40,000 00 | ......... |
| Sprague Correspondence School of Law | ......... | ...... | ......... | ......... | ......... | ......... | ......... | ......... | ......... | ......... | ......... | ......... | ......... |
| *Schools with Normal and Business Course:* | | | | | | | | | | | | | |
| Benton Harbor College | 32 00 to 42 00 | 2 50 | 126 00 | ......... | 60,000 00 | ......... | ......... | ......... | 6,700 00 | ......... | 5,300 00 | 250 00 | 960 00 |
| Cedar Lake Industrial Academy | 40 00 | 1 75 | 150 00 | ......... | 8,000 00 | ......... | ......... | ......... | 954 25 | 3,012 04 | 3,678 74 | ......... | 1,000 00 |
| Cleary Business College | 40 00 to 80 00 | 2 50 | ......... | | 33,985 00 | ......... | ......... | ......... | 10,590 88 | 155 95 | 10,187 31 | ......... | 10,200 00 |
| Fenton Normal School and Commercial College | ......... | ...... | ......... | ......... | ......... | ......... | ......... | ......... | ......... | ......... | ......... | ......... | ......... |
| Ferris Institute | 25 00 to 50 00 | 2 50 | 180 00 | ......... | 50,000 00 | ......... | ......... | ......... | 34,928 32 | 4,338 75 | 30,600 24 | 641 70 | ......... |
| Grand Rapids Business University | 90 00 | 4 00 | 105 00 | ......... | ......... | ......... | ......... | ......... | 5,501 34 | 883 95 | 6,690 29 | ......... | 300 00 |
| International Business College | 73 00 | 3 50 | 275 00 | ......... | 2,500 00 | ......... | ......... | ......... | 5,285 21 | ......... | 2,515 89 | 100 00 | ......... |
| Jackson Business University | 80 00 | 2 85 | 300 00 | ......... | 4,500 00 | ......... | ......... | ......... | 4,021 83 | 1,286 98 | 4,763 21 | 250 00 | 5,000 00 |
| Ludington Business College | 40 00 | 3 00 | 150 00 | ......... | 3,000 00 | ......... | ......... | ......... | 1,006 35 | ......... | 200 00 | 275 00 | ......... |
| Michigan Business and Normal College | 75 00 | 3 00 | 231 00 | ......... | 5,500 00 | ......... | ......... | ......... | 7,025 00 | ......... | 5,005 00 | 300 00 | 450 00 |

---

* To non-residents of State.

† Includes board, etc.

## TABLE XXVII.

*Special statistics compiled from commissioners' reports.*

| Counties. | Parochial schools. | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Number of schools. | Number of children enrolled. | Age of same. | Branches taught. | Character of instruction. | Number of instructors. | Regularity of attendance. | Length of time of school. |
| Allegan | 3 | 170 | 6 to 14 | Religious doctrine, Bible history, English and German, grammar, spelling, reading and writing, geography, U. S. history, drawing, physics, civil government and arithmetic | Fair | 5 | Good | 9 to 10 mos. |
| Alpena | 6 | 1,000 | 6 to 18 | Same as in public schools with religious instruction added | Fair | 20 | Good | 10 mos. |
| Arenac | 3 | 45 | 7 to 15 | Common branches | Fair | 3 | Fair | 6 to 9 mos. |
| Baraga | 1 | 90 | 5 to 14 | Reading, writing, arithmetic, grammar, physics, geography, and drawing | Good | 4 | Excellent | 10 mos. |
| Berrien | 4 | e 400 | 5 to 14 | German and a little English | Very poor | | | |
| Branch | 1 | e 150 | 8 to 18 | Same as public schools up to 7th grade, also music, drawing, sewing, and German | Fair | 3 | Fair | 8½ mos. |
| Calhoun | 4 | e 550 | 5 to 15 | Common school branches | Excellent | 14 | Excellent | 9 mos. |
| Cass | 1 | 26 | 5 to 18 | Arithmetic, grammar, civil government, U. S. history, spelling and orthography, needle work and Adventists' creed | Good | 1 | Good | 8 mos. |
| Cheboygan | 4 | 399 | 7 to 15 | Common English branches, languages, music and drawing | Very good | 10 | Good | 10 mos. |
| Chippewa | 1 | 400 | 5 to 16 | Common school branches and church catechism | Fair | 8 | Fair | 10 mos. |
| Clinton | 4 | 420 | 5 to 18 | Common branches, German, Bible, and catechism | Fair | 9 | Good | 5 to 10 mos. |
| Delta | 2 | 634 | 5 to 18 | German and subjects up to 11th grade | Good | 12 | Good | 10 mos. |
| Dickinson | 1 | 275 | 6 to 14 | Common branches, catechism, Bible history and music | | | | |
| Emmet | 3 | 900 | 5 to 16 | Usual subjects to 10th grade and manual training | Very good | e 10 | Good | 9 to 10 mos. |
| Genesee | 1 | 150 | 5 to 14 | All subjects through 8th grade | Fair | 4 | Good | 9 to 10 mos. |
| Gogebic | 1 | 500 | 5 to 18 | All branches of grades and high school | Good | 12 | Fair | 10 mos. |
| Grand Traverse | 1 | e 80 | 9 to 16 | Common English branches and catechism | Thorough | 4 | Fair | 9 mos. |
| Gratiot | 1 | 17 | 5 to 18 | Common branches and Adventist creed | Fair | 1 | Good | 8 mos |
| Hillsdale | 1 | 12 | 6 to 15 | Common branches and Adventist creed | Good | 1 | Fair | 9 mos. |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Houghton | 13 | 2,771 | 9 to 20 | Same as in public schools | Fair | 70 | Good | 10 mos. |
| Huron | 12 | 776 | 7 to 14 | English branches, church doctrine, German and Polish language | Fair | 15 | Good | 9 to 10 mos. |
| Ingham | 2 | 350 | 6 to 19 | Common branches, music and catechism | Good | 11 | Good | 10 mos. |
| Ionia | 3 | 300 | 6 to 18 | English subjects to 9th or 10th grade and religious instruction | Good | 9 | Good | 9½ mos. |
| Iosco | 2 | 150 | 5 to 14 | Common branches, music and catechism | Good | 2 | Excellent | 9 mos. |
| Isabella | 2 | 375 | 5 to 16 | All the common branches and catechism | Good | 9 | Fair | 8 to 10 mos. |
| Jackson | 3 | e 1,000 | | Common branches | Fine | 26 | | |
| Kalamazoo | 4 | 800 | 5 to 20 | English subjects covering first eight grades | Good | 22 | Good | 9 mos. |
| Kent | * 4 | 200 | 5 to 12 | Common branches and religious doctrine | Fair | 6 | Very good | 9 to 10 mos. |
| Leelanau | 3 | 247 | 5 to 20 | English subjects and Catholic doctrine | | 6 | | |
| Lenawee | 6 | 222 | 5 to 16 | Same as public schools, catechism, church history | Good | 6 | Good | 6 to 10 mos. |
| Macomb | 18 | 468 | 5 to 14 | Subjects of first eight grades and church doctrine | Fine | 23 | Good | 5 to 11 mos. |
| Manistee | 5 | 1,385 | | Common branches and religious doctrine | Fair | 23 | | 8 to 9 mos. |
| Marquette | 3 | 1,188 | 6 to 20 | Common English branches through high school and religious doctrine | Good | 27 | Good | 10 mos. |
| Mason | 3 | 165 | 5 to 15 | Religion and common English subjects | Good | 5 | Good | 10 mos. |
| Mecosta | 3 | e 150 | 7 to 16 | Common branches and catechism | Fair | 5 | Very good | |
| Midland | 1 | e 15 | 5 to 14 | Same as public schools | Good | 1 | Very good | 5 to 6 mos. |
| Monroe | 14 | 500 | 5 to 15 | Nearly all English subjects in first eight grades | Fair | 20 | Very good | 5 to 10 mos. |
| Montcalm | 1 | | | All subjects through high school and church doctrine | Fair | 6 | Fair | 8 mos. |
| Montmorency | 1 | 40 | 5 to 14 | Common branches and German | Poor | 1 | Good | 8 mos. |
| Muskegon | 6 | e 600 | 5 to 16 | English, French, German, Holland. Subjects to 9th grade | Good | 25 | Very good | 10 to 11 mos. |
| Oakland | 2 | 300 | 7 to 21 | Full English course, Latin and religious doctrine | Fair | 10 | Excellent | 10 mos. |
| Oceana | 2 | e 150 | 5 to 15 | Same as in public school | Fair | 4 | Good | |
| Osceola | 1 | 70 | 5 to 15 | Common branches to 7th grade. Bible history, German | Fair | 1 | Good | 10½ mos. |
| Otsego | 2 | 120 | 5 to 12 | Usual branches, Catholic and Adventist doctrine | Improving | 3 | Very good | 6 to 9 mos. |
| Ottawa | 7 | e 900 | 5 to 19 | Common subjects through high school | Fair | 30 | Good | 10 mos. |
| Presque Isle | 3 | 180 | 5 to 14 | Common branches, half in English | Fair | 5 | Very good | 6 to 10 mos. |
| Saginaw | 24 | | | | | e 35 | | |
| St. Joseph | 4 | 87 | 6 to 14 | Common branches and catechism | Good | 4 | Fair | 4 to 9 mos. |
| Sanilac | 3 | | 12 to 16 | Eighth grade branches with exception of physiology and geography, church doctrine | Very poor | 3 | | |
| Schoolcraft | 1 | 200 | 5 to 19 | Regular subjects, Bible history, and catechism | Fair | 6 | Good | 10 mos. |
| Shiawassee | 3 | 300 | 7 to 16 | Common English branches, catechism and German in one | Fair | 5 | Good | 5 to 10 mos. |
| Tuscola | 10 | e 400 | 6 to 14 | Some of the ordinary English branches, but instruction largely religious | Fair | e 10 | Good | e 6 mos. |
| Van Buren | 4 | 54 | 8 to 15 | English branches, church history, and catechism | Fair | 4 | Good | 6 to 8 mos. |
| Washtenaw | 18 | 850 | 7 to 16 | Common English branches and religious training | Fair | 22 | Very good | 2 mos. |
| Wayne | * 10 | 704 | | English usually taught half a day | | 17 | | 9 to 10 mos |
| Wexford | 2 | 28 | 5 to 18 | Common branches and religious instruction | | 2 | Good | 8 mos. |

---

* Outside city.

## TABLE XXVII.—Continued.

*Special statistics compiled from commissioners' reports.*

| Counties. | Commercial schools. | | | | | | |
|---|---|---|---|---|---|---|---|
| | Number of schools. | Number of students. | Branches taught. | Character of instruction. | Number of instructors. | Length of time of school. | Name and location of each school. |
| Alpena | 1 | 180 | All commercial branches, stenography and typewriting | Good | 5 | 12 mos. | "Alpena Business College," Alpena. |
| Benzie | 1 | 35 | Common branches including a commercial course | Good | 2 | 9 mos. | "Frankfort Normal and Commercial College," Frankfort |
| Chippewa | 2 | 445 | Commercial branches and liberal arts | Good | 13 | 12 mos. | "Furse Business College" and "Reed's College of Business and Liberal Arts," Sault Ste. Marie. |
| Delta | 1 | | | | | | "Gordon's Business School." |
| Emmet | 1 | 25 | Commercial subjects | | 1 | 12 mos. | Located at Petoskey. |
| Genesee | 1 | 20 | Commercial branches | Good | 2 | 12 mos. | "Bliss Business College." |
| Grand Traverse | 1 | 275 | Regular commercial branches with Normal course during the summer | Thorough | 5 | 12 mos. | "The Needham Business College," Traverse City. |
| Gratiot | 1 | e 70 | Commercial subjects, music, elocution | Good | 3 | 8 mos. | "Yerington's College," St. Louis. |
| Hillsdale | 1 | 50 | Commercial and Normal branches | Excellent | 2 | 12 mos. | "Hillsdale Business College," Hillsdale. |
| Jackson | 2 | 300 | Commercial branches | Good | 10 | 9 to 10 mos. | "Devlin's Business College" and "Jackson Business Unisity," Jackson. |
| Kalamazoo | 2 | 250 | Usual commercial branches, grammar, composition, typewriting, stenography, telegraphy and correspondence work | Good | 7 | 12 mos. | "Parson's Business College" and "Michigan Business Institute," Kalamazoo. |
| Lenawee | 1 | e 175 | Business course including stenography and typewriting | Good | 6 | 10½ mos. | "Brown's Business University," Adrian. |
| Manistee | 1 | 42 | Business subjects | Good | 2 | 11 mos. | "Manistee Business College," Manistee. |
| Marquette | 2 | 133 | Spelling, word-study, penmanship, grammar, U. S. history, commercial arithmetic, shorthand, typewriting | Good | 8 | 12 mos. | "Ironwood Business College," Ishpeming, "Marquette Business College," Marquette. |
| Oakland | 1 | 75 | Regular commercial course | Good | 3 | 12 mos. | "Pontiac Business College," Pontiac. |
| Ottawa | 2 | | Commercial subjects | | | | "Grand Haven Business College," Grand Haven, "Holland Business College," Holland. |
| Saginaw | 2 | | Commercial branches | | | | "Saginaw Business College," and "International Business College," Saginaw, E. S. |
| Shiawassee | 1 | 75 | English, arithmetic, bookkeeping, writing, spelling, shorthand, commercial law, etc | Good | 2 | 10 mos. | "Owosso Business College," Owosso |
| Washtenaw | 1 | e 75 | All commercial branches | | | 12 mos. | "Moran Business College," Ann Arbor. |

## TABLE XXVII.—CONCLUDED.

*Special statistics compiled from commissioners' reports.*

| Counties. | Private schools. | | | | | | |
|---|---|---|---|---|---|---|---|
| | Number of schools. | Number of students. | Branches taught. | Character of instruction. | Number of instructors. | Length of time of school. | Name and location of each school. |
| Emmet | 1 | 75 to 100 | College entrance and subjects required at county teachers' examinations | ........... | 2 | 12 mos. | "Petoskey Normal and Business College," Petoskey |
| Ionia | 1 | 4 | Eighth grade subjects and two recitations daily in the Bible. | Fair | 1 | 7 mos. | Located in east part of Odessa Township. |
| Lenawee | 1 | .......... | All high school subjects, music and painting | Good | ...... | 10 mos. | "St. Joseph's Academy," Adrian. |

## TABLE XXVIII.

*Special report of day schools for the deaf for the school year 1905-06.*

| Location. | Number of teachers employed. | Number of pupils enrolled. | Total days' attendance. | Average number belonging. | Actual cost of school. |
|---|---|---|---|---|---|
| Totals | 20 | 141 | 21,154.5 | 117.5205 | $15,529 51 |
| Bay City | 1 | 8 | 1,342 | 7.455 | $966 75 |
| Calumet | 1 | 9 | 1,508.5 | 8.3805 | 1,199 50 |
| Detroit | 7 | 45 | 6,749.5 | 37.497 | 5,442 48 |
| Grand Rapids | 3 | 22 | 3,205.5 | 17.808 | 2,240 00 |
| Ironwood | 1 | 7 | 1,217 | 6.761 | 750 00 |
| Ishpeming | 1 | 5 | 952 | 5.288 | 710 50 |
| Kalamazoo | 1 | 9 | 1,051 | 5.838 | 817 19 |
| Manistee | 1 | 8 | 1,354 | 7.522 | 750 50 |
| Menominee | 1 | 4 | 760 | 4.222 | 715 13 |
| Saginaw, E. S | 1 | 9 | 1,228 | 6.822 | 749 98 |
| Sault Ste. Marie | 1 | 7 | 690.5 | 3.836 | 464 85 |
| Traverse City | 1 | 8 | 1,096.5 | 6.091 | 722 63 |

## TABLE XXIX.

*Special report of the county normal training classes for the school year 1905-06.*

| Counties. | Number of teachers. | Amount paid teachers. | Number of graduates. | Average age of graduates. | Average number hours of practice teaching by each graduate. |
|---|---|---|---|---|---|
| Totals | 92 | $28,528 74 | 293 | 19.4 | ....... |
| Antrim | 5 | $1,318 24 | 7 | 18.2 | 80 |
| Arenac | 3 | 1,500 00 | ..... | ...... | 45 |
| Barry | 6 | 1,250 00 | 19 | 18.2 | 52.5 |
| Calhoun | 4 | 1,300 00 | 14 | 19 | 52.4 |
| Cass | 4 | 1,000 00 | 14 | 20.5 | 52.1 |
| Charlevoix | 2 | 1,200 00 | 11 | 19.9 | 65.6 |
| Clinton | 4 | 1,400 00 | 17 | 19.5 | 50 |
| Gratiot | 5 | 1,200 00 | 13 | 19.5 | 50 |
| Ingham | 3 | 1,400 00 | 15 | 18.3 | 51 |
| Ionia | 5 | 1,200 00 | 9 | 19.2 | 26.5 |
| Iosco | 3 | 1,062 50 | 10 | 20.6 | 72 |
| Kalkaska | 2 | 1,300 00 | 10 | 19.5 | 65 |
| *Macomb | ..... | .......... | ..... | ...... | ....... |
| Manistee | 5 | 1,300 00 | 17 | 19 | 61.3 |
| Mason | 5 | 1,448 07 | 11 | 21.2 | 109.8 |
| Mecosta | 3 | 800 00 | 18 | 18.9 | 53.8 |
| Midland | 4 | 1,300 00 | 12 | 21.2 | 60.4 |
| Newaygo | 4 | 1,249 93 | 12 | 20.7 | 52.8 |
| Oakland | 4 | 1,200 00 | 15 | 20.8 | 50 |
| Oceana | 5 | .......... | 8 | 19 | 79.8 |
| Osceola | 4 | 1,300 00 | 8 | 18 | 46 |
| Otsego | 3 | 1,100 00 | 9 | ...... | ....... |
| St. Clair | 2 | 1,450 00 | 18 | 18.8 | 61.5 |
| Shiawassee | 4 | 1,250 00 | 12 | 18.9 | 50 |
| Wexford | 3 | 1,000 00 | 14 | 17.9 | 110. |

---

* No report received.

# INDEX.

Page
Commercial course, schools having 223–237
Commercial schools, not incorporated:
  Branches taught 274
  Character of instruction 274
  Instructors, number of 274
  Name and location of schools 274
  Students enrolled, number of 274
Commissioners for 1906 263
    number of schools visited by 181
    salaries of 181
Comparative summary of statistics 147
Compulsory attendance law, number districts in which enforced 181
    results of 15, 16
    schools enforcing 223–237
Conductors and instructors at teachers' institutes 35
Cost per capita of schools 170
County boards of school examiners 263
County normal teachers 35
County normal training classes 18
  Average number hours of practice teaching by each graduate 276
  Counties maintaining 276
  County normal institutes (Bulletin No. 18) 20
  Course of study 21
  Graduates, average age of 276
    number of 148, 276
  Syllabus of work 21
    Academic subjects 23
    Special subjects 21, 22
  Teachers, amount paid 276
    number employed 148, 276

Day schools for the deaf:
  Cities maintaining 223–237, 276
  Cost of school 276
  Pupils, average number belonging 276
    number enrolled 148, 276
  Teachers, number employed 148, 276
Deaf, Michigan School for the, general and financial statistics of 267, 270
    statement regarding 56
Decisions of the Supreme Court (see Supreme Court decisions).
Denominational colleges, general and financial statistics of 267, 270
Detroit college, general and financial statistics of 267, 270
Detroit College of Law, general and financial statistics of 269, 271
Detroit College of Medicine, general and financial statistics of 269, 271
Detroit Home and Day school, general and financial statistics of 268, 271
Detroit Homeopathic college, general and financial statistics of 269, 271
Detroit seminary, general and financial statistics of 268, 271
Detroit University school, general and financial statistics of 268, 271
Dictionaries, number of schools supplied with 153, 183
Diplomas, eighth grade, number granted 183
District libraries (see libraries).
    taxes, amount received from 150, 162
Districts, expenditures of 151, 165
    furnishing free text-books, number of 153, 183
    graded, number of 147, 156
    number supplied with flag and flagstaff 153
      that have adopted text-books on physiology 183
        taught communicable diseases according to law 183
      visited by commissioner during the year 181
    resources of 150, 162
    township unit, number of 147, 156
    ungraded school, number of 147
    whole number of 147, 156
Domestic science, schools giving instruction in 223–237
Drawing, schools giving instruction in 223–237

Page
Certificates, kindergarten, music, and drawing.......... 47
Normal, number of teachers holding.......... 150, 178
number of applicants for, having received normal instruction.......... 150, 178
regular and special.......... 150, 178
receiving, who had attended institutes during year.......... 150, 178
without previous experience in teaching.......... 150, 178
revoked or suspended.......... 178
State, number holding.......... 150, 178
Charitable institutions, general and financial statistics of.......... 267, 270
Charlevoix county, centralized school in.......... 7
Children attending public school, number of.......... 147, 156, 170
between 5 and 20, number of.......... 153, 162, 170
enrolled in city school districts.......... 148, 206
day school for the deaf.......... 148, 276
graded school districts.......... 147, 170, 186
parochial schools.......... 272
ungraded school districts.......... 147, 170
City and village schools:
Amount paid for instruction.......... 238–249
regular teachers.......... 238–249
special teachers.......... 238–249
Attendance, average daily.......... 207–220
Children between 5 and 20, number of.......... 206–220
Commercial course, schools having.......... 223–237
Compulsory attendance law, schools enforcing.......... 223–237
Cost per capita by departments for instruction and incidentals.......... 238–249
Day schools for the deaf, schools having.......... 223–237, 284
Domestic science, schools giving instruction in.......... 223–237
Drawing, schools giving instruction in.......... 223–237
Enrollment by departments.......... 206–220
Flags, U. S. number having.......... 223–237
French, number studying.......... 223–237
German, number studying.......... 223–237
Graduates, average age of class.......... 222–236
number of.......... 223, 237
Greek, number studying.......... 223, 237
Instructors, number of, in commercial course.......... 250
drawing.......... 250
kindergarten.......... 250
manual training.......... 250
music.......... 250
penmanship.......... 250
Kindergarten below primary grade, schools having.......... 223–237
work, portion of time in first primary devoted to.......... 223–237
Latin, number studying.......... 223–237
Manual training, schools giving instruction in.......... 223–237
Music, vocal, schools giving instruction in.......... 223–237
Non-resident pupils, number of.......... 222–236
Number pupils belonging, average.......... 206–220
to each teacher.......... 222–236
Penmanship, schools giving instruction in.......... 223–237
Superintendents' time given to supervision.......... 207–221
Teachers, number employed.......... 207–221
special, number of.......... 207–221
Ungraded department, schools maintaining.......... 223–237
City teachers:
Certificates, college, number holding.......... 250
different grades held by.......... 250
granted by state board of education, number holding.......... 250
normal, number holding.......... 250
Number employed.......... 250
Civil government, number of districts giving instruction in.......... 175
Cleary Business college, general and financial statistics of.......... 269, 271
Colleges, establishment and control of.......... 54
statistics of (see State and educational institutions).

Page
Commercial course, schools having... 223–237
Commercial schools, not incorporated:
Branches taught... 274
Character of instruction... 274
Instructors, number of... 274
Name and location of schools... 274
Students enrolled, number of... 274
Commissioners for 1906... 263
number of schools visited by... 181
salaries of... 181
Comparative summary of statistics... 147
Compulsory attendance law, number districts in which enforced... 181
results of... 15, 16
schools enforcing... 223–237
Conductors and instructors at teachers' institutes... 35
Cost per capita of schools... 170
County boards of school examiners... 263
County normal teachers... 35
County normal training classes... 18
Average number hours of practice teaching by each graduate... 276
Counties maintaining... 276
County normal institutes (Bulletin No. 18)... 20
Course of study... 21
Graduates, average age of... 276
number of... 148, 276
Syllabus of work... 21
Academic subjects... 23
Special subjects... 21, 22
Teachers, amount paid... 276
number employed... 148, 276

Day schools for the deaf:
Cities maintaining... 223–237, 276
Cost of school... 276
Pupils, average number belonging... 276
number enrolled... 148, 276
Teachers, number employed... 148, 276
Deaf, Michigan School for the, general and financial statistics of... 267, 270
statement regarding... 56
Decisions of the Supreme Court (see Supreme Court decisions).
Denominational colleges, general and financial statistics of... 267, 270
Detroit college, general and financial statistics of... 267, 270
Detroit College of Law, general and financial statistics of... 269, 271
Detroit College of Medicine, general and financial statistics of... 269, 271
Detroit Home and Day school, general and financial statistics of... 268, 271
Detroit Homeopathic college, general and financial statistics of... 269, 271
Detroit seminary, general and financial statistics of... 268, 271
Detroit University school, general and financial statistics of... 268, 271
Dictionaries, number of schools supplied with... 153, 183
Diplomas, eighth grade, number granted... 183
District libraries (see libraries).
taxes, amount received from... 150, 162
Districts, expenditures of... 151, 165
furnishing free text-books, number of... 153, 183
graded, number of... 147, 156
number supplied with flag and flagstaff... 153
that have adopted text-books on physiology... 183
taught communicable diseases according to law... 183
visited by commissioner during the year... 181
resources of... 150, 162
township unit, number of... 147, 156
ungraded school, number of... 147
whole number of... 147, 156
Domestic science, schools giving instruction in... 223–237
Drawing, schools giving instruction in... 223–237

Page

Educational funds 135
Educational institutions, general and financial statistics of 267–269
Eighth grade diplomas, number granted 183
  number of pupils in, exclusive of graded schools 183
Emmanuel Missionary college, general and financial statistics of 267, 270
Examination questions for county certificates 96–128
  eighth grade diplomas 129–132
  State certificates 79–95
Examinations of teachers, public, number held 150, 178
  statistics of 150, 178
Examiners, boards of, expenses and compensation, amount of 152, 181
  list of 263
  number of days devoted to meetings of 181
Expenses of schools, total net 151, 165

Fenton Normal school and Commercial college, general and financial statistics of 269, 271
Ferris institute, general and financial statistics of 269, 271
Financial report of the University of Michigan 137
  statistics, miscellaneous 238–249
Flag and flagstaff, number of districts supplied with 153
Free text-books, number of districts furnishing 153, 183
French, schools giving instruction in 223–237
Funds, educational 135

General history, number of districts giving instruction in 175
General school statistics as reported by school inspectors 156
Genesee county, centralized schools in 8
Geography, number of districts giving instruction in 175
Geometry, number of districts giving instruction in 175
German, schools giving instruction in 223–237
Globes, number of schools supplied with 153, 183
Graded school districts:
  Aggregate number of months taught in 187
  Children attending school in, number of 147, 170, 186
    between 5 and 20, number of 147, 170, 186
  Cost of, per capita 170
    total 187
  Indebtedness of, total 151, 186
  Instruction and superintendence, amount paid for 187
  Non-resident pupils attending 147, 187
    tuition paid by 151, 187
  Number of 147, 156
  Percentage of attendance 148, 186
  Property, estimated valuation of 150, 186
  School, number of days taught in 186
  Teachers, number employed 148, 149, 186
  Wages of, average monthly 149, 150, 187
    total 149, 187
Grammar, number of districts giving instruction in 175
  school department, statistics (see city and village schools).
Grand Rapids Business university, general and financial statistics of 269, 271
Grand Rapids Medical college, general and financial statistics of 269, 271
Grand Traverse county, centralized school in 8
Greek, schools giving instruction in 223–237

High school course of study 42
  New features 43
  Use of course 43
Hillsdale college, general and financial statistics of 268, 270
Holy Rosary academy 268, 271
Hope college, general and financial statistics of 268, 270

Indebtedness of districts, amount paid on 151, 165
  bonded and total 151, 168
Industrial Home for Girls, general and financial statistics of 267, 270
  statement regarding 58

Page
Industrial School for Boys, general and financial statistics of.......... 267, 270
statement regarding.......... 57
Inspectors and members of school boards, amount paid.......... 152, 168
Institute fees, amount collected.......... 181
Institutes, average attendance at.......... 260
conductors and instructors at.......... 33, 256
enrollment at.......... 152, 260
kinds and grades of certificates held by members.......... 260
location and date of.......... 253
number in attendance having received normal instruction.......... 260
without experience in teaching.......... 260
of, held.......... 152
percentage of whole number of teachers that attended.......... 260
receipts and expenditures at.......... 253
International Business college, general and financial statistics of.......... 269, 271
Isabella county, centralized school in.......... 8

Jackson Business university, general and financial statistics of.......... 269, 271
Jackson, county, centralized school in.......... 8

Kalamazoo college, general and financial statistics of.......... 268, 270
Kalamazoo county, centralized school in.......... 8
Kelly, William, Michigan College of Mines, report of.......... 63–68
Kindergarten, music and drawing certificates.......... 47–49
Kindergarten, number of schools having.......... 223–237
work, portion of time in first primary devoted to.......... 223–237

Latin, schools giving instruction in.......... 223–237
Legally qualified teachers, number of.......... 150, 178
Libraries, district and township, amount of fines received from county treasurer for.......... 172
taxes voted for.......... 152, 172
paid for support of.......... 152, 165, 172
general and financial statistics of.......... 151, 152, 172
maintenance of.......... 16
needed improvements in law governing.......... 18
number of.......... 151, 172
volumes added to, during year.......... 172
whole in.......... 151, 172
Library books and care of library, expenditures for.......... 152, 165, 172
moneys, amount received.......... 162, 172
investigation of apportionment and use of.......... 17, 18
number of townships forfeiting.......... 152, 172
using for general school purposes.......... 152, 172
townships, amount on hand July 9, 1906.......... 172
Loan collection of typical rocks and minerals of Michigan.......... 68
Loans, amount of interest paid on.......... 151, 165
received from.......... 150, 162
Ludington Business college, general and financial statistics of.......... 269, 271

Manual training in rural schools.......... 9, 10
schools giving special instruction in.......... 223–237
Maps, number of schools supplied with.......... 153, 183
Michigan Agricultural college, course approved.......... 55
general and financial statistics of.......... 267, 270
Michigan Business and Normal college company, general and financial statistics of.......... 269, 271
Michigan College of Medicine and Surgery, general and financial statistics of.......... 269, 271
Michigan College of Mines, general and financial statistics of.......... 267, 270
loan collection of typical rocks and minerals.......... 68
report of board of control.......... 63
Michigan Female seminary, general and financial statistics of.......... 268, 271
Michigan Military academy, general and financial statistics of.......... 268, 271
Michigan State Normal college, attendance for academic year and summer session of 1906.......... 50
general and financial statistics of.......... 267, 270
Moneys on hand, amount of.......... 165

Nazareth academy, general and financial statistics of.......... 268, 271
Net receipts of all districts.......... 150, 162

Page

- New State course of study, 11
  - Arithmetic, 12
  - Geography, 12
  - Language, 12
  - Purpose, 11
  - Use in one and two-room schools, 12, 13
- Non-resident pupils, number in graded schools, 147, 187
  - ungraded schools, 147
  - tuition from, amount received in graded school districts, 151, 187
    - ungraded school district, 151
- Normal school system of Michigan, 50
  - Course of study, 51–54
  - Development, 50
  - Institutions, 50
  - Instructors, 51
  - Organization and government, 50
  - Trained teachers, 51
- Normal training classes (see county normal training classes).
- Northern State Normal school, attendance for academic year and summer session of 1906, 50
  - general and financial statistics of, 267, 270
- Oakland county, centralized school in, 8
- Olivet college, general and financial statistics of, 268, 270
- One-mill tax, receipts from, 150, 162
- Orthography, number of districts giving instruction in, 175

- Penmanship, number of districts giving instruction in, 175
  - schools, giving instruction in, 223–237
- Percentage of attendance for the State, 148, 156
  - in city and village schools, 207–221
  - graded school districts, 148, 186
- Physics, number of districts giving instruction in, 175
- Physiology, list of approved text-books on, 13
  - number of districts giving instruction in, 175
    - having adopted text-books on, 183
- Primary school interest fund, apportionment of, 152, 154
  - increased for 1906, by decision of U. S. Supreme Court, 2
- Private or parochial schools:
  - Attendance, regularity of, 272
  - Branches taught, 272, 275
  - Character of instruction, 272, 275
  - Children enrolled, ages of, 272
    - number of, 272, 275
  - Instructors, number of, 272, 275
  - Statistics of, 148, 177
- Professional schools, general and financial statistics of (see State and educational institutions).
- Public examinations, number held, 150, 178
- Pupils, number enrolled in city school districts, 148, 206
  - day schools for the deaf, 148, 276
  - eighth grade, exclusive of graded schools, 183
  - graded school districts, 147, 170, 186
  - normal training classes, 276
  - private or parochial schools, 148, 177, 272, 275
  - ungraded school districts, 147, 170

- Questions, examination, for county certificates, 96
  - eighth grade diplomas, 129
  - State certificates, 79

- Raisin Valley seminary, general and financial statistics of, 268, 271
- Rocks and minerals of Michigan, loan collection of, 68
- Rural schools:
  - Consolidation, 7
  - Elementary agriculture, 10
  - Improvement, best plan for, 6, 7
  - Manual training, 9
  - State course of study, 6
  - Training of rural teachers, 9
  - Transportation, 9

Page
St. Mary's academy, general and financial statistics of.......... 268, 271
St. Mary's school, general and financial statistics of.......... 268, 271
School, average number of months.......... 148, 156
  number of days in graded districts.......... 186
    whole.......... 156
School board and inspectors, amount paid for services.......... 152, 168
  commissioners, for 1906.......... 263
    number of schools visited by.......... 181
    salaries.......... 181
  districts, statistics of (see districts).
  for the Blind, general and financial statistics of.......... 267, 270
    Deaf, general and financial statistics of.......... 267, 270
  houses, number of.......... 150, 156
    properly ventilated.......... 183
    to be built during year.......... 150
  statistics, general.......... 156
School Improvement Club, aim of.......... 4
School savings banks.......... 43–47
  Adrian.......... 44
  Albion.......... 44
  Grand Haven.......... 44
  Grand Rapids.......... 45
  Marine City.......... 46
  Monroe.......... 46
  Owosso.......... 46
  St. Louis.......... 47
  Ypsilanti.......... 47
Schools and school houses, statistics as to conditions.......... 183
  centralized in Michigan.......... 7–9
  commercial, not incorporated, special statistics.......... 275
  cost per capita.......... 170
  giving special instruction in elementary agriculture.......... 10
    manual training.......... 9, 10
  number having uniform text-books in each branch.......... 183
    in which physiology and hygiene is taught.......... 183
    properly classified.......... 183
    with prescribed course of study.......... 183
  private or parochial, number of.......... 148, 177
  rural.......... 6–9
  special statistics of.......... 272, 275
  teachers employed in.......... 148, 149, 159
  with normal and business course, general and financial statistics of.......... 269, 271
Seminary of the Felician Sisters, general and financial statistics of.......... 268, 271
Sisters of the Order of St. Dominic (Holy Rosary academy).
Special educational institutions.......... 55–59
  Industrial Home for Girls.......... 58
  Industrial School for Boys.......... 57
  Michigan School for the Blind.......... 55
  Michigan School for the Deaf.......... 56
  State Public school.......... 58
Special report of county normal training classes.......... 276
    day schools for the deaf.......... 276
    superintendents of schools.......... 250
Special statistics compiled from commmissioners' reports.......... 274
Sprague Correspondence School of Law, general and financial statistics of.......... 269, 271
Spring Arbor seminary, general and financial statistics of.......... 268, 271
State Agricultural college, (see Michigan Agricultural college).
State and educational institutions:
  Amount of legislative appropriation.......... 270
  Cost per student.......... 270
  Current expenses for the year.......... 270
  Estimated value of grounds, buildings, etc.......... 270
  Expenses for permanent improvement.......... 270
  Funds, amount of productive.......... 270
    income from.......... 270